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Undergraduate

This catalog contains information on UAB’s academic programs offered in the following schools:

- Arts and Sciences (p. 138)
- Business (p. 113)
- Education (p. 265)
- Engineering (p. 283)
- Health Professions (p. 302)
- Honors (p. 258)
- Nursing (p. 309)
- Public Health (p. 316)

About UAB

Over four decades, UAB has evolved from an academic extension center into an autonomous, comprehensive urban university and academic health center within the University of Alabama System. UAB has established wide-ranging programs in the College of Arts and Sciences and the schools of Business, Dentistry, Education, Engineering, Health Professions, Medicine, Nursing, Optometry and Public Health, with graduate programs serving all major units. Fall 2015 enrollment is more than 18,300, and the freshman class is the most academically prepared ever at UAB, with an average high school GPA of 3.66 and average ACT of 25 (putting the class in the top 21 percent nationally).

UAB is situated near downtown Birmingham and the historic Five Points South district. The campus stretches across 100 square blocks and occupies more than 100 primary buildings. UAB is Alabama’s largest single-site employer, with more than 23,000 employees and an economic impact exceeding $5 billion annually on the state.

Accreditation

The University of Alabama at Birmingham is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate, masters, specialist, and doctorate levels.

Questions related to the accreditation of The University of Alabama at Birmingham should be directed to the Commission on Colleges at:

Commission on Colleges
Southern Association of Colleges and Schools
1866 Southern Lane
Decatur, Georgia 30033
Phone: (404) 679-4500
Fax: (404) 679-4558

Many academic programs have additional accreditation from organizations appropriate to the academic discipline.

If you have questions related to issues such as admission requirements, educational programs, and financial aid that are not answered in this publication, please contact UAB at:

University of Alabama at Birmingham
Office of the Registrar
1605 11th Avenue South

General Information

Role Statement

UAB’s undergraduate instructional programs are broad-based and designed to serve the needs of a diverse student body without sacrificing a strong general education foundation. Programs range from the liberal arts and sciences to professionally oriented studies, including business, education, engineering, and the health disciplines. UAB’s baccalaureate offerings are shaped by its location in the state’s largest metropolitan area, by its mandate to serve a large and heterogeneous constituency, by its responsibility to contribute to the economic and professional development of Birmingham and the state, and by its role of providing support to a nationally recognized academic health sciences center.

At the graduate level, programs serve the career needs of educators and business leaders, as well as those involved in advancing the frontiers of the health sciences. Training for health professionals is available through programs at the baccalaureate, master’s, doctoral, and professional degree levels.

UAB also has the primary responsibility for meeting the state’s health professional needs. It offers a comprehensive range of programs which encompass both basic preparation and sophisticated graduate and specialty training in medicine, dentistry, optometry, nursing, the health professions, and public health.

As one of the nation’s leading research institutions, UAB emphasizes both basic and applied research. Although the majority of the university’s research effort is in the biomedical sciences and related areas, all instructional programs are expected to participate in research activities. UAB’s urban setting necessitates the development of research programs that are responsive to the city’s economic, social, and cultural needs. Much of the research conducted at UAB is interdisciplinary in nature and is organized through centers that bring together experts in a number of related fields to concentrate on a particular problem or issue. UAB attracts more than $400 million annually in research funding and currently ranks 10th among public universities in funding from the National Institutes of Health.

As the senior public doctoral-level institution in the state’s major urban area, UAB is also committed to providing comprehensive programs in continuing education consistent with the quality and diversity of its other offerings. The university’s faculty, staff, and students also serve as resources to the area through activities related to professional, economic, and cultural growth and development.

Cultural Opportunities

UAB’s urban location offers students unique cultural opportunities. Located within walking distance of the campus is the Five Points South district, where ethnic-style restaurants, shops, art galleries, and music clubs are located. Not far from campus are the Birmingham Museum of Art, the Civil Rights Institute, the historic Alabama Theater, and the Birmingham-Jefferson Convention Complex. Other nearby sites include...
Sloss Furnace, a post-Civil War iron foundry which has been converted into a museum and informal music hall, and Oak Mountain Amphitheater, an outdoor facility that features music-industry headliners during the spring and summer concert season.

UAB also has a flourishing arts program. Dozens of major music events are produced each season at UAB, in addition to numerous theater productions and student and professional art exhibitions. The Alys Robinson Stephens Performing Arts Center is Birmingham’s home for the performing arts and the anchor of UAB’s burgeoning Cultural Arts Corridor. The Center features a 1,400-seat concert hall, a 350-seat theater, and a 150-seat recital hall, and regularly schedules nationally and internationally known artists and orchestras and features faculty and student productions and concerts. The Abroms-Engel Institute for the Visual Arts houses the Department of Art and Art History and hosts world-class exhibits and cultural events.

**Student Life**

UAB offers a rich variety of student life activities through its many academic organizations, honor clubs, fraternities and sororities, and volunteer groups. The university houses more than 180 campus organizations, including 33 national honorary societies, more than 120 professional clubs and interest groups, cheerleaders, the Golden Girls dance team, intramural and recreational sports, and an established student government organization.

The campus is rich in social activity and the arts and culture. The Campus Green is a vibrant hub of campus life, with serene outdoor spaces and state-of-the-art residence halls, dining facilities and academic buildings. A few blocks away, the Cultural Arts Corridor offers a host of free activities for students, including exhibitions, lectures and performances. UAB’s new Hill Student Center is an architecturally striking facility that houses, among other amenities, a student welcome center, bookstore, and meeting, conference, and auditorium space.

UAB’s athletic program is a Division I member of the NCAA and a founding member of Conference USA. UAB athletes participate in 17 intercollegiate sports and have earned championships in baseball, men’s tennis, women’s tennis, women’s basketball, and men’s golf.

**The University of Alabama System**

The University of Alabama was foreseen in the Constitutional Convention in Huntsville, Alabama Territory, on July 5, 1819. At the second session of the General Assembly, December 18, 1819, an act was passed establishing a seminary of learning “to be denominated the University of Alabama.” The university opened for admission of students on April 18, 1831, in Tuscaloosa. All public buildings except the observatory were burned by federal cavalrymen on April 4, 1865. Erection of new buildings began in January 1867 and classroom instruction resumed in April 1869.

During the first half of the twentieth century and in addition to its regular educational programs at the Tuscaloosa campus, the university began to offer additional educational opportunities to residents in urban communities throughout Alabama. Extension centers, offering both day and evening classes, were established in Birmingham, Huntsville, Montgomery, Mobile, Dothan, and Gadsden. The Birmingham and Huntsville centers evolved into new university campuses, which were established in addition to the Tuscaloosa campus.

In September 1966, all university operations in Birmingham were designated as the University of Alabama in Birmingham (UAB) by the University of Alabama Board of Trustees. This action established the University of Alabama in Birmingham as one of the three major campuses of the university. The University of Alabama in Huntsville had been initiated as a four-year school in 1964.

In June 1969, the campuses were given autonomy within the framework of the University of Alabama System, each having its own administrative structure with a president as the chief executive officer. A chancellor was appointed in June 1976 as chief administrative officer of the system. In 1984, the name of the University of Alabama in Birmingham was changed to the University of Alabama at Birmingham.

**Medicine, Dentistry, Optometry, or Law**

Students wishing to pursue careers in medicine, dentistry, optometry, or law complete a program of undergraduate study (usually culminating in a baccalaureate degree) before entering the appropriate professional school. “Pre-medicine,” “pre-dentistry,” “pre-optometry,” and “pre-law” are not majors.

**Individually Designed Majors**

Students whose educational objectives are not well served by any of the regular majors may propose an individually designed major. Such program proposals require approval of the appropriate dean.

**ROTC**

UAB has Army and Air Force ROTC (Reserve Officer Training Corps) units in which Birmingham-area college students may participate.

**Cooperative Education Program**

UAB’s Cooperative Education Program helps students identify work opportunities that combine practical experience with academic studies. Some academic departments give credit for carefully structured work experiences.

**Non-Academic Policies**

**Equal Opportunity and Discriminatory Harassment Policy**

UAB is committed to equal opportunity in education and employment, and the maintenance and promotion of nondiscrimination and prevention of discriminatory harassment in all aspects of education, recruitment and employment of individuals throughout the university.

**Immunization Policy**

UAB requires that first-time entering students, international students and scholars, and students in health-related schools provide proof of immunization against certain diseases.

**Non-Resident Tuition Policy**

This policy addresses non-resident tuition, certification of residency status by campus officials, and establishment of campus policies to administer an appeals process.

**Drug-Free Campus Policy for Students**

Unlawful possession, use, manufacture, distribution, or dispensing of illicit drugs, controlled substances, or alcoholic beverages by any UAB student is prohibited.
Drug-Free Campus Policy for Students - Attachment A

This attachment for the Drug-free Campus Policy for Students outlines the Federal penalties and sanctions for the illegal possession of a controlled substance.

Drug-Free Campus Policy for Students - Attachment B

This attachment to the Drug-free Campus Policy for Students outlines the health risks associated with the use of drugs and alcohol.

Drug Free Campus/Workplace Policy - Attachment B.1

This Attachment to the Drug-Free Campus and Drug-Free Workplace Policies outlines effects related to the consumption of alcohol.

Drug-Free Campus Policy for Students - Attachment C

This attachment to the Drug-Free Campus Policy describes available programs through UAB offering counseling and assistance for drug and alcohol abuse.

Copyright Policy

The University of Alabama at Birmingham (the “University”) is dedicated to instruction, research and service to benefit society and encourages its faculty, staff and students to carry out scholarly endeavors in an open and free atmosphere, and to publish the results of such work without restraint, consistent with applicable law and policy.

Patent Policy

UAB encourages the development of procurement and licensing of patents for inventions in the interest of the public, the inventor, and the university.

Data Protection and Security Policy

Data (electronic) created at UAB must be protected and maintained in accordance with all applicable federal and state laws and university policies.

Student E-Mail Address Policy

November 10, 2003

See also:

Electronic Data Processing Security Policy

Acceptable Use Policy

Network Usage Guidelines

Purpose

UAB provides electronic mail resources in support of its instruction, research, and service activities. The purpose of this policy is to establish the use of electronic mail (e-mail) as one of the official methods for communicating with UAB students.

Official Communications Using E-Mail Addresses

In a similar manner as mail distribution of paper communiqués to a student’s “permanent” address is considered an official method for distributions to students, so also are official e-mail messages sent by UAB to a student’s “@UAB.EDU” e-mail address considered an official distribution method. For purposes of this policy, “official” communiqués or e-mails as used here are those established as “official” through other approval mechanisms in place at UAB.

Student Requirements and Responsibilities

Every student enrolled at UAB must have an e-mail address that ends with “@UAB.EDU”. Such an e-mail address is required for a student to register for UAB credit courses. It is the student’s responsibility to obtain an official UAB e-mail address in a timely manner from the UAB e-mail registering system (BlazerID World Wide Web site). This will require the student also to have a valid, current, and reliable electronic mailbox through an Internet Service Provider (ISP) or portal or on a server administered by the student’s academic department, or on the central mail service provided by the Office of the Vice President for Information Technology. It is the student’s responsibility to check his or her e-mail regularly for distribution of official UAB communiqués. UAB recommends that e-mail be checked at least once a day, when practicable. UAB is not responsible for lost, rejected, or delayed e-mail forwarded by UAB from a student’s “@UAB.EDU” address to off campus or unsupported e-mail services or providers. Such lost, rejected, or delayed e-mail does not absolve the student from responsibilities associated with an official UAB communiqué sent to the student’s official UAB e-mail address (“@UAB.EDU”). If there is a change in a student’s e-mail address to which the “@UAB.EDU” alias address is re-directed, it is the student’s responsibility to make the changes in the UAB e-mail registering system.

UAB Responsibilities

UAB will ensure that all students have access to an e-mail account and will provide means for students who do not otherwise have access to e-mail-capable computers to be able to check their e-mail through such mechanisms as computer labs, the UAB libraries, and public terminals. UAB will provide mechanisms to allow students to request that their e-mail addresses not be published in a similar way that other student directory information is not published. However, unpublished e-mail addresses will be used for sending official UAB communiqués to students including communications to a group of students such as a course e-mail list. Students also will be provided mechanisms for requesting that their e-mail addresses not be used for general UAB mailings that are not official communications with students. UAB is not responsible for the handling or mishandling of students’ e-mail by non-UAB providers or by unofficial (non-@UAB.EDU) e-mail servers.

Student Records Policy

The University of Alabama at Birmingham student records policy complies with the Family Educational Rights and Privacy Act of 1974, as amended. All students enrolled or previously enrolled at UAB have certain rights with regard to information included in their education records. These rights are the subject of this policy.
Trustees & Administration

The University of Alabama System Board of Trustees

The Honorable Robert J. Bentley
Governor of Alabama

President ex officio

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State Superintendent of Education

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Cleophus Thomas, Jr.
John Russell Thomas

The University of Alabama System Administration

Chancellor
Robert E. Witt, Ph.D.

Secretary of the Board
Michael A. Bownes

The University of Alabama at Birmingham Administration

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Linda C. Lucas, Ph.D., Provost
G. Allen Bolton, Jr., MPH, M.B.A., Vice President, Financial Affairs and Administration
Tom Brannan, Interim Vice President, Development and Alumni
Anne L. Buckley, A.P.R., Chief Communications Officer
Curtis A. Carver, Jr., Ph.D., Vice President, Technology/Chief Information Officer
Paulette Patterson Dilworth, Ph.D., Vice President, Diversity, Equity and Inclusion
William Ferniany, Ph.D., Chief Executive Officer, UAB Health System
John Jones, Ph.D., Vice President, Student Affairs
Richard B. Marchase, Ph.D., Vice President, Research and Economic Development
Selwyn M. Vickers, M.D., F.A.C.S., Senior Vice President and Dean, School of Medicine
Suzanne Austin, Ph.D., Senior Vice Provost for Student and Faculty Success
Bradley Barnes, Ph.D., Vice Provost for Enrollment Management
Gregg M. Janowski, Ph.D., Associate Provost for Assessment and Accreditation
J. Iwan O. Alexander, Ph.D., Dean, School of Engineering
Shannon Blanton, Ph.D., Dean, Honors College
Faculty

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Abrams, Marshall
College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 2007, A.B. (California-Davis), Ph.D. (Chicago)

Accetta, Valerie
College of Arts and Sciences
Department of Theatre, Assistant Professor, Head of Musical Theatre, 2013, B.A. (Otterbein), M.F.A. (Virginia Commonwealth)

Agresti, David G.
College of Arts and Sciences
Department of Physics, Professor Emeritus of Physics, 1969, B.S. (Ohio State), M.S., Ph.D. (Caltech), Astrophysics; condensed matter physics

Ahmad, Wajih
School of Education
Department of Human Studies, Assistant Professor of Community Health and Human Services, 1998, B.S., M.Ph., Ph.D. (UAB)

Alexander, J. Iwan
School of Engineering
Department of Engineering, Dean and Professor of Mechanical Engineering, 2013, B.Sc. (University College Swansea, Wales, U.K.); Ph.D. (United World College of the Atlantic, Wales, U.K.); Ph.D. (Washington State)

Alexander, James R.
College of Arts and Sciences
Department of Art Art History, Professor of Art, 1978, B.Arch., M.Arch. (Cornell), M.F.A. (Louisiana State), Sculpture, Architectural Terra Cotta, Architectural History, Italian Architectural Terra Cotta, Political Posters as Propaganda, Grave-markers

Allison, Kelly
College of Arts Science
Department of Theatre, Professor of Theatre; Chair, Department of Theatre, 1998, B.F.A. (Stephens), M.F.A. (Minnesota)

Alspach, Jennie
School of Nursing
Instructor of Nursing, 2014, B.S.N., M.S.N. (UAB)

Amsbary, Jonathan H.
College of Arts and Sciences
Department of Communication Studies, Associate Professor of Communication Studies, 1988, B.A. (New Mexico), M.A., Ph.D. (Indiana)

Amsler, Charles D. Jr.
College of Arts and Sciences
Department of Biology, Professor of Biology, 1994, A.B. (Duke), M.S. (North Carolina-Wilmington), Ph.D. (California-Santa Barbara), Marine Ecophysiology, Chemical Ecology, and Polar Biology

Amthor, Franklin R.
College of Arts and Sciences
Department of Psychology, Professor of Psychology; Interim Director, Behavioral Neuroscience Doctoral Program; Associate Professor of Biomedical Engineering, 1981, B.S. (Cornell), Ph.D. (Duke)

Andrews, J. Barry
School of Engineering
Department of Materials Science and Engineering, Professor Emeritus of Materials Science and Engineering, 1976, B.S. (UAB), M.E., PhD. (Florida), P.E. (Alabama), Polymer and Metal Matrix Composites, Solidification, Physical Metalurgy

Angus, Robert A.
College of Arts and Sciences
Department of Biology, Professor Emeritus of Biology, 1978, B.S. (Wisconsin), Ph.D. (Connecticut), Aquatic Toxicology

Appleton, Joseph H.
School of Engineering
Department of Civil, Construction, and Environmental Engineering, Distinguished Service Professor Emeritus of Civil Engineering, 1959, B.C.E. (Auburn), M.S., Ph.D. (Illinois), P.E. (Alabama)

Arribas, Julian
College of Arts and Sciences
Department of Foreign Languages and Literatures, Professor and Chair, 2015, BS (Universidad Pontificia - Spain); ABD (University de Salamanca); MA, PhD (Michigan)

Atigadda, Venkatram
College of Arts and Sciences
Department of Chemistry, Research Assistant Professor of Chemistry, 2003, B.S. (Gulbarga-India), M.S., Ph.D. (Auburn)

Attard, Thomas L.
School of Engineering
Department of Civil, Construction, and Environmental Engineering, Associate Professor of Civil, Construction, and Environmental Engineering, 2014, B.S.C.E (Univ. of Nevada, Reno), M.S.C.E., Ph.D. (Arizona State), Structural engineering, sustainable infrastructure systems, mechanics of sustainable systems

Austad, Steven
College of Arts and Sciences
<table>
<thead>
<tr>
<th>Name</th>
<th>College or Department</th>
<th>Title</th>
<th>Education</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Austin, Erika</td>
<td>School of Public Health</td>
<td>Assistant Professor, 2015, Ph.D. (Virginia)</td>
<td>Health disparities among stigmatized populations, barriers to health care access, LGBT health and well-being</td>
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<tr>
<td>Ayers, Douglas J.</td>
<td>School of Business</td>
<td>Associate Professor of Marketing and Industrial Distribution, 1999, B.S., M.B.A. (Tennessee), Ph.D. (Kentucky)</td>
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<tr>
<td>Azuero, Andres</td>
<td>School of Nursing</td>
<td>Associate Professor of Nursing, 2008, B.Sc. (University de Los Andes), M.B.A. (Louisiana State), Ph.D. (UAB)</td>
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<tr>
<td>Bach, Rebecca Ann</td>
<td>College of Arts and Sciences</td>
<td>Professor of English, 1994, B.A., M.A., Ph.D. (Pennsylvania), Shakespeare, Renaissance Drama, Animal Studies</td>
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<tr>
<td>Bacha, Jeffrey</td>
<td>College of Arts and Sciences</td>
<td>Assistant Professor of English, 2012, B.A. (University of Michigan-Flint), M.A. (Georgia State University), Ph.D. (Purdue), Rhetoric and Composition, Professional and Technical Communication</td>
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<tr>
<td>Baker, Danielle</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 2011, B.S.N., M.S.N. (Jacksonville State)</td>
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<td>Baker, Elizabeth H.</td>
<td>College of Arts and Sciences</td>
<td>Assistant Professor of Sociology, 2012, B.A., M.A. (Bowling Green), Ph.D. (Pennsylvania State)</td>
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<tr>
<td>Baker, Lisa</td>
<td>College of Arts and Sciences</td>
<td>Social Work, Associate Professor, 2005, B.A. (Georgia), M.S.W. (Florida International), Ph.D. (Georgia)</td>
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<tr>
<td>Baker, Natalie</td>
<td>School of Nursing</td>
<td>Assistant Professor of Nursing, 2011, B.S.N., M.S.N., D.N.P. (UAB)</td>
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<tr>
<td>Ball, Karlene K.</td>
<td>College of Arts and Sciences</td>
<td>Department of Psychology, University Professor and Chair, Department of Psychology; Director, Center for Research in Applied Gerontology; Professor of Psychology, Associate Director, Comprehensive Center for Healthy Aging, 1996, B.A. (Indiana), M.S., Ph.D. (Northwestern)</td>
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<tr>
<td>Bangalore, Purushotham</td>
<td>College of Arts and Sciences</td>
<td>Department of Computer and Information Sciences, Professor of Computer and Information Sciences and Assistant Director of CIA-JFR, 2003, B.E. (Bangalore-India), M.S., Ph.D. (Mississippi State)</td>
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<tr>
<td>Barrett, Doug</td>
<td>College of Arts and Sciences</td>
<td>Associate Professor of Art History, 2008, B.F.A. (Central Florida), M.F.A. (Florida), Graphic Design, Typography, Visual Culture, Designer as Author, Design Fiction, Japan</td>
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<tr>
<td>Basilisco, David</td>
<td>College of Arts and Sciences</td>
<td>Associate Professor of English; Director, Linguistics Program, 1993, B.A. (Brown), Ph.D. (Arizona), Linguistic Theory, Syntax and Semantics, Cognitive Science</td>
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<tr>
<td>Batey, David Scott</td>
<td>College of Arts and Sciences</td>
<td>Social Work, Assistant Professor, 2015, B.S., M.S.W., Ph.D. (Alabama)</td>
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<tr>
<td>Bauldry, Shawn</td>
<td>College of Arts and Sciences</td>
<td>Assistant Professor of Sociology, 2013, B.A. (Wake Forest), M.A. (U. Washington), M.S. (UNC Chapel Hill), Ph.D. (UNC Chapel Hill)</td>
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<tr>
<td>Baulos, Doug</td>
<td>College of Arts and Sciences</td>
<td>Associate Professor of Art, 2003, B.F.A. (UAB), M.F.A. (New Orleans), Drawing, Book Arts, Medical Scientific Illustration</td>
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<tr>
<td>Bauman, Robert P.</td>
<td>College of Arts and Sciences</td>
<td>Professor Emeritus of Physics, 1967, B.S., M.S. (Purdue), Ph.D. (Pittsburgh)</td>
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<td>Becker, David J.</td>
<td>School of Public Health</td>
<td>Department of Health Care Organization and Policy, Associate Professor, 2005, Ph.D. (University of California - Berkley), Specializes in health, labor and regulatory economics</td>
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<tr>
<td>Bej, Asim K.</td>
<td>College of Arts and Sciences</td>
<td>Department of Computer and Information Sciences, Professor of Computer and Information Sciences and Assistant Director of CIA-JFR, 2003, B.E. (Bangalore-India), M.S., Ph.D. (Mississippi State)</td>
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Department of Biology, Professor of Biology, 1991, B.S., M.Sc. (Calcutta), Ph.D. (Louisville), Molecular Genetics and Genomics of Pathogens and Extremophiles

Bellis, Peter

College of Arts and Sciences

Department of English, Professor of English, 2007, B.A. (Amherst), M.A. (Texas-Austin), M.A., Ph.D. (Johns Hopkins), American Literature

Benditt, Theodore M.

College of Arts and Sciences

Department of Philosophy, Professor of Philosophy, 1978, B.A., J.D., M.A. (Pennsylvania), Ph.D. (Pittsburgh)

Berry, Joel L.

School of Engineering

Department of Biomedical Engineering, Associate Professor of Biomedical Engineering; Director of BME Undergraduate Program; Associate Director, UAB Science and Technology Honors Program, 2010, B.S., B.S.M.E., M.S.M.E. (UAB), Ph.D. (Wake Forest), Cardiovascular biomechanics and tissue engineering

Bertalan, Rebecca A.

School of Nursing

Instructor of Nursing, 2011, B.S.N. (Mt. Saint Mary’s); M.S.N. (Wyoming)

Bertrand, Fred (Ted)

School of Health Professions

Department of Clinical and Diagnostic Sciences, Associate Professor, 2014, Ph.D. (UAB), Cancer Bell Signaling and Microenvironment Regulation of Tumor Initiation and Development

Bethard, Steven J.

College of Arts and Sciences

Department of Computer and Information Sciences, Assistant Professor of Computer and Information Sciences, 2013, B.A., B.S. (Arizona), Ph.D. (Colorado)

Betros, Cecil

College of Arts and Sciences

Department of Communication Studies, Instructor of Communication Studies, 2007, B.S., M.S. (University of Montevallo), D.Sc. (Columbia Pacific)

Biasini, Fred J.

College of Arts and Sciences

Department of Psychology, Associate Professor of Psychology, Director, Developmental Psychology Doctoral Program, 1983, B.A., M.S., (St. Vincent), Ph.D. (Alabama)

Bibb, Bonnie S.

School of Nursing

Instructor of Nursing, 2013, B.S.N., M.S.N. (UAB)

Bidez, Martha Warren

School of Engineering

Department of Biomedical Engineering, Professor of Engineering, 2010, B.S. (Auburn), B.S.M.E. (UAB), Ph.D. (UAB)

Biga, Peggy

College of Arts and Sciences

Department of Biology, Assistant Professor of Biology, 2012, B.S., M.S. (Angelo State), Ph.D. (Idaho), Physiology and Developmental Biology

Blanton, Robert G.

College of Arts and Sciences

Department of Government, Professor of Government, 2014, B.A. (North Carolina), M.A., Ph.D. (South Carolina)

Blanton, Shannon L.

College of Arts and Sciences

Department of Government, Professor of Government, Dean, Honors College, 2014, B.A. (Georgia College), M.A. (Georgia), Ph.D. (South Carolina)

Blok, Alexander

College of Arts and Sciences

Department of Mathematics, Professor of Mathematics, 1992, Ph.D. (Kharkov State), Dynamical Systems

Boggiano, Mary M.

College of Arts and Sciences

Department of Psychology, Associate Professor of Psychology, 2000, B.A., M.A., Ph.D. (Texas at El-Paso)

Bokobza, Serge

College of Arts and Sciences

Department of Foreign Languages and Literatures, Associate Professor of French, 1980, Licence-ès-Lettres, Maîtrise-ès-Lettres (Paris-X: Nanterre), M.A., Ph.D. (Illinois)

Bokus, Norman E.

School of Health Professions

Department of Clinical and Diagnostic Sciences, Assistant Professor and Program Director, Nuclear Medicine Technology Program, 1999, M.P.H. (UAB)

Bond, Margaret D.

College of Arts and Sciences

Department of Foreign Languages and Literatures, Instructor of French, 2009, B.A. (Virginia), B.A., M.A. (UAB)

Bonta, Bruce

College of Arts and Sciences

Department of Anthropology, Research Associate, 2015, B.A. (Bucknell), SLS (Maine)

Borry, Erin L.

College of Arts and Sciences

Department of Public Administration, Assistant Professor of Government, 2013, B.A., M.P.A. (Rutgers), Ph.D. (Kansas)

Bowen, Pamela

School of Nursing

Assistant Professor of Nursing, 2005, B.S.N. (UAB), B.A. (Faulkner), M.S.N., Ph.D. (UAB)

Boyar, Scott L.

School of Business

Department of Management, Information Systems, and Quantitative Methods, Professor of Management, 2009, B.S. (Keene State College), M.B.A. (University of San Diego), Ph.D. (Mississippi State)

Boylan, Douglas M.

School of Engineering

Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2005, B.S., M.S., Ph.D. (Tulane)
Brande, Scott  
College of Arts and Sciences  
Department of Chemistry, Associate Professor of Chemistry, 1979, B.S. (Rochester), M.S. (California Institute of Technology), Ph.D. (SUNY-Stony Brook)

Braswell, Mary Flowers  
College of Arts and Sciences  

Braziel, James  
College of Arts and Sciences  
Department of English, Assistant Professor of English, 2010, B.A. (Georgia), M.F.A (Bowling Green State), Creative Writing, Poetry, Science Fiction

Breland, Bryan  
School of Health Professions  
Department of Health Services Administration, Assistant Professor, 2009, DrPH, JD, MPH, MPH, Community and Organizational Emergency Preparedness, Healthcare Policy

Bristow, Alice S.  
School of Nursing  
Instructor of Nursing, 2011, B.S. (Alabama); B.S.N., M.S.N. (UAB)

Britt, Sylvia E.  
School of Nursing  
Assistant Professor of Nursing, 2007, B.S.N. (Medical College of Georgia), M.S.N., D.S.N. (UAB)

Brown, Michelle  
School of Health Professions  
Department of Clinical and Diagnostic Sciences, Assistant Professor, 2000, M.S. (UAB), Transfusion Medicine and Interprofessional Education

Bryant, Pamela  
School of Nursing  
Instructor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

Budhwani, Henna  
School of Public Health  
Department of Health Care Organization and Policy, Assistant Professor, Deputy Director of the UAB Sparkman Center for Global Health, 2013, M.P.H., Ph.D. (UAB), Health disparities and global health

Buys, Katie Crawford  
School of Nursing  
Instructor of Nursing, 2011, B.S.N. (Samford); M.S.N., M.P.H., D.N.P. (UAB)

Calhoun, Charles  
School of Education  
Department of Curriculum and Instruction, Associate Professor of Elementary Education, 1989, B.A. (Earham), M.A., Ph.D. (Georgia State)

Callahan, Dale  
School of Engineering  
Department of Electrical and Computer Engineering, Associate Professor of Electrical and Computer Engineering; Director, Information Engineering and Management, 2000, B.E.E. (Auburn), M.B.A. (Auburn-Montgomery), M.S.E.E. (UAB), Ph.D. (Alabama), P.E. (Alabama), Entrepreneurship, Innovation and Social Media

Camata, Renato  
College of Arts and Sciences  
Department of Physics, Associate Professor of Physics, 2000, B.S. (Universidade de São Paulo), M.S., Ph.D. (Caltech), Aerosol processes in nanomaterials fabrication; nanostructured materials; laser synthesis and properties of semiconductor, electroceramic and bioceramic thin films

Cannon, Joseph J.  
College of Arts Science  
Department of Theatre, Assistant Professor of Theatre, 2004, B.A. (UAB), M.F.A. (Arizona)

Carlito, Delores  
Mervyn H. Sterne Library  

Carpenter, Randy  
School of Health Professions  
Department of Health Informatics, M.S.H.I., Adjunct Professor (Health Services Administration)

Caruthers, Kara  
School of Nursing  
Department of Clinical and Diagnostic Sciences, Assistant Professor, 2010, MAPAS (UAB), Emergency Medicine

Cattedge, Shane A.  
College of Arts and Sciences  
Department of Physics, Assistant Professor of Physics, 2004, B.S. (California State –Sacramento), Ph.D. (UAB), Synthesis and properties of nanostructured super-hard materials; chemical vapor deposition (CVD) of diamond films and novel nanostructured coatings for industrial cutting and biomedical implant applications; molecular sensing using fluorescent nanodiamond; mechanical properties

Cato, Shelly  
College of Arts and Sciences  

Catron, Kelly  
School of Nursing  
Instructor of Nursing, 2010, B.S.N., M.S.N. (UAB)

Causey, Cora  
School of Education  
Department of Curriculum and Instruction, Instructor of Early Childhood and Elementary Education, 2014, B.A., (Birmingham Southern College), M.A. (UAB)

Centeno, María Jesús  
College of Arts and Sciences  
Department of Foreign Languages and Literatures, Instructor of Spanish, 2006, B.A. (Universidad Autónoma de Madrid), M.A. (Georgia)

Chambliss, Krista  
College of Arts and Sciences  
Department of Foreign Languages and Literatures, Assistant Professor of Spanish, 2006, B.A., M.A., Ph.D. (Alabama)
Chapman Lambert, Crystal
Assistant Professor, 2014, B.S.N., A.A., M.S.N., Grad Certificate, Ph.D. (South Florida)

Chapman, Alison
Department of English, Professor of English; Chair, Department of English, 2000, B.A. (Davidson), M.A., Ph.D. (Pennsylvania), Renaissance Poetry and Prose

Chapman, Gary H.
Department of Art History, Professor of Art, 1990, B.S., B.A. (Berea), M.F.A. (Cranbrook Academy), Painting, Drawing, Mixed Media, Figuration

Chawla, Krishan Kumar
Department of Materials Science and Engineering, Professor Emeritus of Materials Science and Engineering, 1998, B.S. (Banaras Hindu, India), M.S., Ph.D. (Illinois, Urbana-Champaign), Metal, Ceramic, and Polymer Matrix Composite Materials; Fibers; Foams

Chen, Dongquan
Department of Health Informatics, Ph.D., Research Assistant Professor (Health Services Administration)

Chiasera, Janelle
Department of Clinical and Diagnostic Sciences, Professor, Chair, and Interim Program Director (Clinical Laboratory Sciences), 2006, Ph.D. (Ohio State), Diabetes Mellitus and its complications

Childs, Gwendolyn
Assistant Professor of Nursing, 2007, B.S.N. (Lander), M.S.N. (Medical College of Georgia), Ph.D. (South Carolina)

Cho, Won
Department of Music, Associate Professor of Music, 2011, B.M. (Manhattan), M.M. (Boston), D.M.A. (Memphis)

Chris F. Biga
Department of Sociology, Teaching Assistant Professor of Sociology, 2012, B.A. (Nebraska), M.A. (New Orleans), Ph.D. (Washington State)

Christensen, Lois M.
Department of Curriculum and Instruction, Professor of Early Childhood and Elementary Education, 1996, B.A., M.A. (Arizona State), Ph.D. (Texas AM)

Clabough, Jeremiah
Department of Curriculum and Instruction, Assistant Professor of Secondary Education, 2012, B.A. (Maryville College), M.S., Ph.D. (Tennessee)

Clavell, Alicia
Department of Management, Information Systems, and Quantitative Methods, Visiting Instructor in Business Communications, 2011, B.A. (Berry College), M.A. (UAB)

Clay, Olivio
Department of Psychology, Associate Professor of Psychology, 2007, B.S., M.A., Ph.D. (UAB)

Cochran, John Brock
Department of Foreign Languages and Literatures, Instructor of Spanish, 2012, B.A. (Auburn), M.A. (North Carolina in Charlotte)

Coles, Karen M.
Instructor of Nursing, 1993, B.S.N. (Michigan State); M.S.N., D.N.P. (UAB)

Collins, Loucrecia
Department of Human Studies, Associate Professor of Educational Leadership, 2000, B.S., M.A., Ed.D. (Mississippi State)

Conner, David A.

Cook, Edwin
Department of Psychology, Associate Professor of Psychology, Director, Medical/Clinical Psychology Doctoral Program, 1986, B.S. (Pennsylvania), M.S., Ph.D. (Wisconsin)

Copes, J. Heith
Department of Justice Sciences, Professor and Director, Master of Science in Criminal Justice Program, 2001, B.S. (Southwestern Louisiana), M.A., Ph.D., (Tennessee), Qualitative Methods, Criminal Decision Making, Visual Criminology

Corbetta, Renato
Department of Government, Associate Professor of Government, 2005, B.A., M.A. (Portland State), Ph.D. (Arizona)

Cormier, Loretta
Department of Anthropology, Associate Professor of Anthropology, 2000, B.S. (Florida), M.A. (UAB), Ph.D. (Tulane)
Cowart, Larry  
School of Business  
Department of Accounting and Finance, Assistant Professor of Finance, 2007, B.S. (Athens), M.B.A. (Samford), Ph.D. (Georgia)

Cracco, Derek A.  
College of Arts and Sciences  
Department of Art Art History, Associate Professor of Art, 1999, B.F.A. (Louisiana State), M.F.A. (Syracuse), Printmaking, Computer graphics, Color Theory

Crawford, Martin  
School of Engineering  
Department of Mechanical Engineering, Professor Emeritus of Mechanical Engineering, 1968, B.S., M.S. (Tennessee), Ph.D. (Georgia Institute of Technology), P.E. (Alabama)

Crigler, Paul  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Instructor of Information Systems, 2004, B.S. (Auburn); B.S., M.S. (UAB)

Crooks, Elizabeth  
School of Nursing  
Instructor of Nursing, 2011, B.S.N. (Catholic University of America), M.S.N. (Case Western Reserve), D.N.P. (UAB)

Crowe, Michael  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, Assistant Director of the Center for Research on Applied Gerontology, 2006, B.S. (Illinois), M.A., Ph.D. (Southern California)

Culver, Sarah E.  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Economics, 1993, B.S., M.A., Ph.D. (Houston)

Cummings, Cathleen A.  
College of Arts and Sciences  
Department of Art Art History, Associate Professor of Art History, 2006, B.A. (Mills College), M.A. (University of London), M.A. and Ph.D. (Ohio State)

Currie, Erin  
School of Nursing  
Assistant Professor, 2014, B.S.N. (Florida State); M.S.N., Ph.D. (UAB)

Cusic, Anne M.  
College of Arts and Sciences  
Department of Biology, Associate Professor of Biology, 1988, B.S. (UAB), M.S. (Samford), Ph.D. (UAB), General Biology and Reproductive Biology

Dahle, Karen B.  
School of Education  
Department of Curriculum and Instruction, Associate Professor of Special Education, 1999, B.S. (James Madison), M.S. (Radford), Ed.D. (Virginia Tech)

Dailey, Kelly  
School of Nursing  
Instructor of Nursing, 2012, B.S.N. (Samford), M.S.N. (UAB)

Dale, Louis  
College of Arts and Sciences  
Department of Mathematics, Professor of Mathematics; Retired, 1973, B.A. (Miles), M.S. (Atlanta), Ph.D. (Alabama), Ring Theory

Dallow, Jessica  
College of Arts and Sciences  
Department of Art Art History, Associate Professor of Art History, 2002, B.A. (San Diego), M.A., Ph.D. (North Carolina-Chapel Hill), Contemporary Art, American Art

Daniel, Melanie  
School of Nursing  
Instructor of Nursing, 2008, B.S.N., M.S.N. (UAB)

Daniels, Melissa  
College of Arts and Sciences  
Department of English, Assistant Professor of English, 2013, B.A. (University of La Verne), M.A. (Claremont), M.A., Ph.D. (Northwestern), Nineteenth-Century American Literature, African American Literature

Daniélou, Catherine F.  
College of Arts and Sciences  
Department of Foreign Languages and Literatures, Associate Professor of French; Senior Associate Dean for Undergraduate Academic Affairs, College of Arts and Sciences, 1990, Licence-ès-Lettres, Maîtrise-ès-Lettres (Sorbonne), M.A., Ph.D. (Michigan State)

DasGupta, Manabendra  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Economics, 1990, B.A., M.A. (Calcutta), M.A., Ph.D. (Southern Methodist)

Davis, Colin J.  
College of Arts and Sciences  

Dawson, Martha  
School of Nursing  
Assistant Professor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

DeBiasi, Laura B.  
School of Nursing  

DeCarlo, Thomas E.  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Professor of Marketing and Industrial Distribution, 2007, B.S. (N. Carolina State), Ph.D. (Georgia)

DeLuca, Shannon  
School of Nursing  
Instructor of Nursing, 2012, B.S.N. (North Carolina-Charlotte), M.S.N. (UAB)

Deupree, Joy  
School of Nursing  
Assistant Professor of Nursing, 2011, B.S.N., M.S.N., Ph.D. (UAB)

DeVore, Todd E.  
College of Arts and Sciences  
Department of Physics, Instructor of Physics, 1998, B.S. (Lewis and Clark), M.S. PhD. (UAB), Physics and science education; computational physics
Di Gangi, Paul  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Assistant Professor of Information Systems, 2013, B.S. (Quinnipiac), M.S. (George Washington), Ph.D. (Florida State)

Dickinson, Dale A.  
School of Public Health  
Department of Environmental Health Sciences, Assistant Professor and Graduate Program Director, 2003, Ph.D. (University of Guelph, Ontario), Pedagogies for enhancing public health training, including service learning, team-based and problem-based learning; environmental justice; molecular actions of functional foods; adaptive response to environmental toxicants and pollutants

Dluhy, Richard  
College of Arts and Sciences  
Chemistry, Professor and Chair, 2015, BS (Connecticut), PhD (Rutgers)

Dobbs, Allan C.  
School of Engineering  
Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 1996, B.Sc. (Dalhousie), B.S.E., M.S.E., Ph.D. (McGill), Human and machine vision, Neural computation, Brain imaging, Scientific visualization

Dobbs, Joel  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Entrepreneur in Residence, 2011, M.Sc. (UAB)

Dorsey, Amanda D.  
School of Health Professions  
Department of Health Informatics, M.S.H.I., Instructor Assistant Program Director (Health Services Administration)

Doss, Harriet E. Amos  
College of Arts and Sciences  
Department of History, Associate Professor of History, 1978, B.A. (Agnes Scott), M.A., Ph.D. (Emory)

Downs, Lauren  
College of Arts and Sciences  
Department of Anthropology, Research Associate, 2013, B.A. (North Carolina), M.A., Ph.D. (Alabama)

Drentea, Patricia  
College of Arts and Sciences  
Department of Sociology, Associate Professor of Sociology, 1999, B.A. (Wisconsin), M.A., Ph.D. (Ohio State)

Drnevich, Dawn  
School of Business  
Department of Accounting and Finance, Assistant Professor of Accounting, 2010, Ph.D. (Texas Tech)

Dudley, Patricia  
School of Nursing  
Instructor of Nursing, 2006, B.S.N, M.S.N. (Samford)

Dunbar, Jessie  
College of Arts and Sciences  
Department of English, Assistant Professor of English, 2013, B.A. (Clark Atlanta University), M.A. (Georgia), Ph.D. (Emory), Nineteenth and Twentieth-Century African American Literature and Black Diaspora Studies

Duncan, W. Jack  
School of Public Health  
Department of Health Care Organization and Policy, Professor of Management and University Scholar Emeritus, 1972, Ph.D. (Louisiana State)

Dwyer, Zoe. B.  
School of Engineering  
Department of Materials Science and Engineering, Associate Professor of Materials Science and Engineering; Associate Dean for Undergraduate Programs, 1999, B.S., M.S., Ph.D. (UAB)

Earwood, Martha  
College of Arts and Sciences  
Department of Justice Sciences, Teaching Assistant Professor of Criminal Justice Internship Coordinator, 2003, B.S., M.S. (Georgia State), Corrections, Victimology, Restorative Justice, Experiential Learning.

Eberhardt, Alan  
School of Engineering  
Department of Biomedical Engineering, Professor of Biomedical Engineering; Associate Chair of Education, Biomedical Engineering; Director of Master of Engineering in Design and Commercialization, 1991, B.S., M.S. (Delaware), Ph.D. (Northwestern), Solid Mechanics, Injury Biomechanics, Biomedical Implants, Analytical and Numerical Methods in Biomechanics

Edmonds, Christopher  
School of Business  
Department of Accounting and Finance, Assistant Professor of Accounting, 2013, B.S. (Colorado State), M.B.A. (UAB), Ph.D. (Virginia Tech)

Edmonds, Jennifer  
School of Business  
Department of Accounting and Finance, Assistant Professor of Accounting, 2013, B.S. (Birmingham-Southern), M.Acc., Ph.D. (Virginia Tech)

Eisler, Riane  
College of Arts and Sciences  
Department of Anthropology, Research Associate , 2015, B.A., J.D. (UCLA), DHL (Case Western), DHL (Saybrook)

Enah, Comfort  
School of Nursing  
Assistant Professor of Nursng, 2009, B.S.N. (Berea College), M.S.N., Ph.D. (Cincinnati)

Ennis, Robin  
School of Education  
Department of Curriculum and Instruction, Assistant Professor of Collaborative Teacher Education K-12, 2015, B.A. (Birmingham Southern), M.Ed. (Vanderbilt), Ph.D. (Georgia State)

Epps, Chad A.  
School of Health Professions  
Department of Clinical and Diagnostic Sciences, Associate Professor , 2007, MD (Medical College of Georgia), Simulation

Ernest, James R.  
School of Education  
Department of Curriculum and Instruction, Professor of Early Childhood and Elementary Education, 2010, B.A. (The University of Exeter, Exeter, England), M.A. (Louisiana State), Ph.D. (UAB)
Esposito, Richard A.  School of Engineering
Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2011, B.S. (Auburn), M.S. (Auburn; Samford), Ph.D. (UAB), P.G. (Alabama, Georgia, Florida, Mississippi, Tennessee), Carbon Dioxide Sequestration; Power Generation

Estes, Jr., Norman Robert  School of Health Professions
Department of Clinical and Diagnostic Sciences, Assistant Professor, 2015, Ph.D. (UAB)

Etheridge, Sherita  School of Nursing
Instructor of Nursing, 2008, B.S.N. (UNA), M.S.N. (UAB)

Evans, Patrick  College of Arts and Sciences
Department of Music, Professor and Chair, 2015, B.M., B.M.E. (Montevallo), M.M., D.M. (Florida State)

Evans, Retta  School of Education
Department of Human Studies, Associate Professor of Community Health and Human Services, 2003, B.S., (Fort Hays), M.S. (Northeastern), Ph.D. (Arkansas)

Fambrough, R. Eugene  College of Arts and Sciences
Department of Music, Associate Professor of Music, 2001, B.M. (Georgia), M.M. (East Carolina), D.M.A. (Alabama)

Fanucchi, Michelle  College of Joint Health Sciences
Department of Biochemistry and Molecular Genetics, Associate Professor Chair; Environmental Health Sciences, 2007, Ph.D. (University of California - Davis), Pulmonary cell biology and toxicology. Cell-to-cell interactions in the developing lung as well as in repair after lung injury and disease in children. Environmental Justice. Childhood lung disease and its etiology. Drug metabolism.

Fast, Vladimir G.  School of Engineering
Department of Biomedical Engineering, Professor of Biomedical Engineering, 1997, Diploma in Physics (Moscow Institute), Ph.D. (Moscow Institute for Physics and Technology), Optical imaging of electrical and ionic activity in the heart mechanisms of cardiac arrhythmias and defibrillation

Fathallah-Shaykh, Hassan  College of Arts and Sciences
Department of Applied Mathematics, Professor of Neurology; Mathematics; Integrative, Developmental and Cell Biology; Biomedical, Electrical, and Mechanical Engineering, 2008, M.D. (American University of Beirut), Ph.D. (Illinois at Chicago), Mathematical Biology, Systems biology of cancer, Dynamics of molecular networks, Biological rhythms

Fedorov, Vladimir V.  College of Arts and Sciences
Department of Physics, Research Assistant Professor of Physics, 2007, M.S. (Moscow Institute of Physics), Ph.D. (Russian Academy of Science), Physical and mathematical science; coherent and laser spectroscopic characterization of doped laser materials; solid-state lasers; laser spectroscopy for molecular-sensing applications

Feldman, Dale S.  School of Engineering
Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 1985, B.S. (Northwestern), M.S. (Dayton), Ph.D. (Clemson), Biomaterials, Soft-tissue biomechanics, Polymeric implants

Fiedler, Robin L.  School of Education
Department of Human Studies, Instructor of Educational Psychology and Research, 2008, B.S. (Edinboro), M.Ed. (Virginia Commonwealth), Ph.D. (Auburn), Measurement, Educational Psychology, Educational Statistics

Fisher, Gordon  School of Education
Department of Human Studies, Assistant Professor of Kinesiology, 2012, B.S. (Hillsdale), M.S. (Mississippi State), Ph.D. (Auburn), Postdoctoral Fellow (UAB), Exercise Physiology; Exercise/Nutrition, Mitochondrial Bioenergetics, Oxidative Stress, and Chronic Inflammation

Flammini, Steve  School of Engineering
Department of Health Informatics, Credit Course Instructor (Health Services Administration)

Fogger, Susanne  School of Nursing
Associate Professor of Nursing, 2010, B.S.N. (Wayland Baptist University), M.S.N., D.N.P. (South Alabama)

Foley, Robin D.  School of Engineering
Department of Materials Science and Engineering, Associate Professor of Materials Science and Engineering, 1990, B.S., M.S., M.S. (Illinois, Urbana-Champaign), Ph.D. (Wisconsin-Madison), Materials Characterization, Physical Metallurgy, Metals Casting

Fontaine, Kevin  School of Public Health
Department of Health Behavior, Professor and Chair, 2012, Ph.D. (Victoria University, UK), Obesity, non-descriptive placebo responses, resistance exercise, mirror visual feedback for pain, movement restrictions in Chronic Fatigue Syndrome, and the effects of carbohydrate restricted diets on systemic inflammation

Forbes, Laura  School of Education
Department of Human Studies, Assistant Professor of Community Health and Human Services, 2005, B.S. (Ball State), M.S. (Central Florida), Ph.D. (South Carolina)

Forman, Michele  College of Arts and Sciences

Fouad, Fouad H.  School of Engineering
Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering; Chair, Department of Civil, Construction and Environmental Engineering; Associate Director, University Transportation Center for Alabama, 1981, B.S.C.E. (Alexandria, Egypt), M.S.C.E. (Texas), Ph.D. (Texas AM), P.E. (Alabama, Texas), Structural Engineering, Reinforced Concrete, Concrete Materials

Friday, R. David  School of Health Professions
Department of Health Informatics, M.S.H.I., Adjunct Instructor (Health Services Administration)

**Friend, Edward M. III**
Department of Marketing, Industrial Distribution, Economics, Assistant Professor of Business Law and Executive in Residence, 2005, B.A., J.D. (University of Alabama)

**Fry, Douglas P.**
Department of Anthropology, Professor Chairperson, 2014, B.A. (UCSB), M.A., Ph.D. (Indiana)

**Fu, Richard**
Department of Accounting and Finance, Associate Professor of Finance, 2006, Ph.D. (Georgia Institute of Technology)

**Gainey, Denise**
Department of Music, Associate Professor of Music, 2002, B.M.E. (Florida State), M.M. (North Texas), D.M.A. (Kentucky)

**Gaioso, Vanessa**
Instructor of Nursing, 2008, B.S.N., M.S.N. (University of Sao Paulo, Brazil), Ph.D. (UAB)

**Gakumo, C. Ann**
Assistant Professor of Nursing, 2009, B.S.N. (Tuskegee), Ph.D. (UAB)

**Gampher, J. Eric**
Department of Psychology, Assistant Professor of Psychology, 2008, B.S. (Florida State), Ph.D. (UAB)

**Gardner, Elizabeth A.**
Department of Justice Sciences, Associate Professor and Director, Master of Science in Forensic Science Program, 2007, B.S. (Penn State), PhD. (Michigan State), Drug Chemistry, Legal Highs, Gun Powder Residue, Laser Induced Breakdown Spectroscopy, Pharmaceutical Spam

**George, Remo**
Instructor of Nursing, 2011, B.S.N. (Miami), M.S.N. (UAH)

**Ghanta, Vithal K.**
Department of Biology, Professor of Biology, 1971, B.S. (G.C.W. College), M.S. (Banaras Hinda), Ph.D. (Southern Illinois), Research Interest: Cancer Immunology, Cancer Immunology

**Ghervas, Stella**
Department of History, Assistant Professor, 2016, B.A., M.A. (St. Petersburg), Ph.D. (Bucharest)

**Gilbert, Margie G.**
Department of Social Work, Visiting Assistant Professor, 2014, B.S.W. (UAB), M.S.W. (Alabama)

**Gilchrist, Roger L.**
Department of Biology, Associate Professor of Biology, 1999, B.S., M.S., Ph.D. (Wyoming), Human Anatomy and Physiology

**Gilmer, Dianne**
Department of Civil, Construction, and Environmental Engineering, Instructor of Civil, Construction, and Environmental Engineering, 2009, B.S. (Samford), MEng-CEM (UAB), Engineering Online Education, Learning Management System Applications, Student Retention in Online Learning Programs

**Goldman, Renitta L.**
Department of Curriculum and Instruction, Professor of Special Education, 1984, B.A. (Washington), M.S. (North Carolina State), Ph.D. (Missouri)

**Golightly, Beverly**
Department of Health Informatics, M.S.H.A., Credit Course Instructor (Health Services Administration)

**Goodin, Burel**
Department of Psychology, Assistant Professor of Psychology and Anesthesiology, 2012, B.S. (Illinois College); M.A. (Boston University of Medicine); M.A., Ph.D (Maryland, Baltimore)

**Grant, Terry**
Department of Accounting and Finance, Professor of Accounting, 2012, B.S. (Alabama), M.P.A. (Texas), Ph.D. (Florida)

**Grau, Grace**

**Graves, Lila V.**
Department of English, Associate Professor of English Emerita, 1976, B.S., M.A., Ph.D. (Auburn), Prose Fiction, Eighteenth-Century British Literature

**Gray, Gary M.**
Department of Chemistry, Professor of Chemistry, 1983, B.S., Ph.D. (Lehigh)

**Green, David G.**
Department of Electrical and Computer Engineering, Instructional Professor of Electrical and Computer Engineering, 1981, B.S.E., M.S.E (UAH), Collaborative Systems, Internet Applications, and Engineering Education
<table>
<thead>
<tr>
<th>Name</th>
<th>Department/College</th>
<th>Title</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Griffin, John A.</td>
<td>School of Engineering</td>
<td>Department of Materials Science and Engineering, Research Assistant</td>
<td>Professor of Materials Science and Engineering, 2011, B.S., M.E., M.S. M.E. (UAB), Metals Casting, Testing and Characterization, Nondestructive Evaluation</td>
</tr>
<tr>
<td>Griffin, O. Hayden</td>
<td>College of Arts and Sciences</td>
<td>Department of Justice Sciences, Associate Professor of Justice Sciences, 2013, J.D. (University of Richmond), Ph.D. (University of Florida), Corrections, Policy, Drugs and Society, Law and Society</td>
<td></td>
</tr>
<tr>
<td>Griffin, Russell</td>
<td>School of Public Health</td>
<td>Department of Epidemiology, Assistant Professor, 2012, Ph.D. (UAB),</td>
<td>Improving quality of care among trauma and burn patients, utilization of peritoneal dialysis in rural populations, and predictors of acute kidney injury among neonates.</td>
</tr>
<tr>
<td>Grimes, Gary J.</td>
<td>School of Health Professions</td>
<td>Department of Health Informatics, Ph.D., Professor (Electrical and Computer Engineering)</td>
<td></td>
</tr>
<tr>
<td>Grimes, L. Kyle</td>
<td>College of Arts and Sciences</td>
<td>Department of English, Professor of English; Director of Graduate Studies Department of English, 1990, B.A. (Dartmouth), M.A., Ph.D. (Illinois)</td>
<td></td>
</tr>
<tr>
<td>Grimes-Robison, Cindy</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 2003, B.A. (Alabama), B.S.N., Ph.D. (UAB), M.Ed. (Montevallo), M.S.N (Troy State)</td>
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<tr>
<td>Grostick, Sara S.</td>
<td>School of Health Professions</td>
<td>Department of Health Informatics, M.A., Associate Professor (Health Services Administration)</td>
<td></td>
</tr>
<tr>
<td>Guest, Kristi C.</td>
<td>College of Arts and Sciences</td>
<td>Department of Psychology, Assistant Professor of Psychology, 2003, B.S., M.A., Ph.D. (UAB)</td>
<td></td>
</tr>
<tr>
<td>Gunstick, Sara S.</td>
<td>School of Business</td>
<td>Department of Management, Information Systems, and Quantitative Methods, Instructor of Information Systems, 2011, B.S. (UAB); M.B.A. (Samford); M.S., MIS, Ph.D. (Alabama)</td>
<td></td>
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<tr>
<td>Gunther-Canada, Wendy A.</td>
<td>College of Arts and Sciences</td>
<td>Department of Government, Professor and Chair, Department of Government, 1992, B.A. (Utah), M.A., Ph.D. (Rutgers)</td>
<td></td>
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<tr>
<td>Gurley, Dennis Keith</td>
<td>School of Education</td>
<td>Department of Human Studies, Assistant Professor of Educational Leadership, 2012, B.A. (Trinity), M.Ed., Ed.D. (Wichita State), Pre-Service and In-Service Development for School Leaders, Professional Learning Communities, and Organizational Theory</td>
<td></td>
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<tr>
<td>Hadley, Mark</td>
<td>School of Business</td>
<td>Department of Marketing, Industrial Distribution, Economics, Professor of Surgery; Professor of Marketing and Industrial Distribution; Spinal Surgery and Medical Equipment and Supplies Distribution, 2008, B.A. (Stanford), M.D. (Albany Medical College)</td>
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<tr>
<td>Haider, Mohammad</td>
<td>School of Engineering</td>
<td>Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2011, Ph.D. (Tennessee-Knoxville), Low-power Sensor Electronics, Wireless Telemetry, and Wireless Power Transfer</td>
<td></td>
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<tr>
<td>Hall, Cheryl D.</td>
<td>College of Arts Science</td>
<td>Department of Theatre, Assistant Professor of Theatre, 1989, B.A. (Southern Illinois), M.F.A. (Arizona)</td>
<td></td>
</tr>
<tr>
<td>Hall, Sean</td>
<td>School of Education</td>
<td>Department of Human Studies, Assistant Professor of Counselor Education, 2012, B.A., M.A. (Florida Gulf Coast), Ph.D. (Old Dominion), Counselor Education, Clinical Mental Health Counseling, Assessment and Intervention Techniques, Processes and Outcomes Research, Dropout Prevention</td>
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<tr>
<td>Hallman, Melanie</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 1998, B.S.N., M.S.N. (UAB)</td>
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<tr>
<td>Hamilton, Denise</td>
<td>School of Health Professions</td>
<td>Department of Health Administration, Instructor (Health Services Administration): Health Care Finance</td>
<td></td>
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<tr>
<td>Hamilton, Harry</td>
<td>College of Arts and Sciences</td>
<td>Department of Sociology, Teaching Associate Professor of Sociology, 2005, B.A., M.A., Ph.D. (UAB)</td>
<td></td>
</tr>
<tr>
<td>Hamilton, Tracy P.</td>
<td>College of Arts and Sciences</td>
<td>Department of Chemistry, Associate Professor of Chemistry, 1991, B.S., M.S., Ph.D. (Arkansas)</td>
<td></td>
</tr>
<tr>
<td>Hammack, Glenn G.</td>
<td>School of Health Professions</td>
<td>Department of Health Informatics, O.D., M.S.H.I., Assistant Professor (Health Services Administration)</td>
<td></td>
</tr>
<tr>
<td>Hammond, Stephanie</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 2010, B.S.N. (Alabama), M.S.N. (UAB)</td>
<td></td>
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<tr>
<td>Hansen, John</td>
<td>School of Business</td>
<td>Department of Marketing, Industrial Distribution, and Economics, Assistant Professor of Marketing, 2009, B.S., M.B.A. (Troy), Ph.D. (Alabama)</td>
<td></td>
</tr>
<tr>
<td>Hardin, J. Michael</td>
<td>School of Health Professions</td>
<td>Department of Health Professions</td>
<td></td>
</tr>
</tbody>
</table>
Department of Health Informatics, Ph.D., Credit Course Instructor (Health Services Administration)

Harper, Doreen  
School of Nursing  
Professor and Dean of Nursing, 2005, B.S.N. (Cornell), M.S.N. (Catholic), Ph.D. (Maryland)

Harris, Linda S.  
Mervyn H. Sterne Library  
Mervyn H. Sterne Library, Associate Librarian: Head, Reference Services, Mervyn H. Sterne Library, 1984, B.A. (Stillman), M.S.L.S. (Atlanta)

Harris, Yolanda  
School of Nursing  
Instructor of Nursing, 2011, B.S.N. (Samford), M.S.N. (UAB)

Harrison, Joseph G.  
College of Arts and Sciences  
Department of Physics, Associate Professor of Physics, 1986, B.S. (Texas AM), M.S., Ph.D. (Wisconsin - Madison), Solid-state theory; atomic and molecular physics; MRI modeling; chemical kinetics; simulation of nonparticle-facilitated hyperthermia

Hasan, Ragib  
College of Arts and Sciences  
Department of Computer and Information Sciences, Assistant Professor of Computer and Information Sciences, 2011, B.S. (Bangladesh), M.S., Ph.D. (Illinois Urbana-Champaign)

Hataway, Connie  
School of Nursing  
Instructor of Nursing, 2008, B.A. (Brenau College), A.S.N. (Troy State), M.S.N. (Samford)

Hawk, James F.  
College of Arts and Sciences  
Department of Physics, Lecturer Emeritus in Physics, 1956, B.A. (Virginia), A.M. (Washington)

Heaton, Karen  
School of Nursing  
Assistant Professor of Nursing, 2008, BSN (UAB), MSN (Louisville) Ph.D. (Kentucky)

Hebard, Stephen P.  
School of Education  
Department of Human Studies, Assistant Professor of Counselor Education, 2015, B.S. (East Stroudsburg), M.S., Ph.D. (North Carolina-Greensboro)

Hendricks, Peter  
School of Public Health  
Department of Health Education and Health Promotion, Associate Professor, 2010, Ph.D. (South Florida), Tobacco use initiation, maintenance, and relapse, with a goal of developing novel and potentially more efficacious interventions for intractable smoking behavior

Hernandez, S. Robert  
School of Health Professions

Department of Health Services Administration, Professor and Program Director, Doctoral Program in Administration-Health Services, 1972, DrPH (UNC - Chapel Hill), Strategic Planning for Health Care Organizations, Health Care Organization Theory, Human Resources Management

Herzig, Terrell W.  
School of Health Professions  
Department of Health Informatics, M.S.H.I., Credit Course Instructor (Health Services Administration)

Hess, Annette  
School of Nursing  
Assistant Professor of Nursing, 1984, B.S.N. (Auburn), M.S.N. (Troy State), Ph.D. (UAB)

Hettich, Dana L.  
Mervyn H. Sterne Library  

Hicks, Joan C.  
School of Health Professions  
Department of Health Informatics, M.S.H.I., Assistant Professor (Health Services Administration)

Hickson, Mark III  
College of Arts and Sciences  
Department of Communication Studies, Professor of Communication Studies, 1987, B.S., M.A. (Auburn), M.A. (Mississippi State), Ph.D. (Southern Illinois)

Hill, Kelly  
School of Education  
Department of Curriculum and Instruction, Assistant Professor of English as a Second Language, 2015, B.S., M.A., Ed.S., Ph.D. (UAB)

Hilton, David  
College of Arts and Sciences  
Department of Physics, Associate Professor of Physics, 2007, B.S., M.S. (Rochester), M.S., Ph.D. (Cornell), Ultrafast spectroscopy and ultrashort pulse generations; ultrafast terahertz spectroscopy; correlated electron materials; superconductivity; high-magnetic field spectroscopy; magnetic semiconductors; complex functional nanomaterials; materials in extreme environments

Hitchcock, Laurel  
College of Arts and Sciences  
Department of Social Work, Assistant Professor, 2013, B.A. (Wisconsin-Madison), M.P.H. (UAB), M.S.W. (Alabama), Ph.D. (Alabama)

Hitchcock, Wilbur A.  
School of Engineering  
Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering; Director of Construction Engineering Management Program, 2005, B.S. (U.S. Military Academy), M.E.C.E., Ph.D. (Texas AM), Engineering Online Education, Sustainable Structural Design Advances, Infrastructure Resilience
Hites, Lisle  
School of Public Health  
Department of Health Care Organization and Policy, Associate Professor, 2010, Ph.D. (Tulane), Structural modeling of predictors of on the job injuries suffered by law enforcement, firefighters, and corrections officers, and understanding the relationship between situation awareness and decision making quality in non-routine emergency response

Hodges, Ashley  
School of Nursing  
Assistant Professor of Nursing; Interim Assistant Dean for Graduate Clinical Programs, 2009, B.S.N. (Alabama), M.A. (Seton Hall), M.S.N., Ph.D. (UAB)

Hogewood, Connie M.  
School of Nursing  
Instructor of Nursing, 2014, B.G.S., B.S.N., M.S.N. (Samford)

Holloway, Stacey  
College of Arts Sciences  
Department of Art Art History, Assistant Professor of Art, 2009, B.F.A (Purdue), M.F.A. (Minnesota-Twin Cities), Sculpture, Ceramics, Engineering

Hood, Anthony  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Assistant Professor, 2011, B.S., M.S. (UAB), Ph.D. (UAB)

Hopkins, Maria  
College of Arts Sciences  
Department of Psychology, Associate Professor of Psychology, Director, Undergraduate Studies of Psychology, 2007, B.S., M.A., Ph.D. (UAB)

Hopf, Ian E.  
School of Engineering  
Department of Civil Construction, and Environmental Engineering, Assistant Professor of Civil, Construction and Environmental Engineering, 2012, B.S.C.E., M.S.C.E, Ph.D. (UAB), Structural Engineering, Engineering Mechanics, Geotechnical Engineering

Howard, Jack Lee  
School of Business  
Department of Management, Information Systems, and Quantitative Methods , Professor of Management, 2009, B.S., A.M., Ph.D. (University of Illinois at Urbana-Champaign)

Huang, Xuan  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Assistant Professor of Quantitative Methods, 2010, B.E. (Tsinghua University, Beijing), M.Sc., Ph.D. (Massachusetts, Amherst)

Hunter, Gary R.  
School of Education  

Hurst-Wajszczuk, Kristine  
College of Arts and Sciences  
Department of Music, Associate Professor of Music, 2007, B.M., M.M. (Westminster Choir-Rider), D.M.A. (Colorado-Boulder)

Hutchings, William  
College of Arts and Sciences  
Department of English, Professor of English, 1981, A.B. (Transylvania), M.A., Ph.D. (Kentucky), Modern British Fiction, Modern Drama, World Literature

Hutchison, Jeanne S.  
College of Arts and Sciences  
Department of Mathematics, Assistant Professor of Mathematics, 1970, B.S. (Creighton), M.A., Ph.D. (California-Los Angeles)

Hutson, Susan  
School of Health Professions  
Department of Clinical and Diagnostic Sciences, Associate Professor Emeritus, Respiratory Therapy Program, 1976, M.A.E. (UAB)

Hyatt, Robert M.  
College of Arts and Sciences  
Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences, 1988, B.S., M.S. (Southern Mississippi), Ph.D. (UAB)

Hyde, Michael T.  
School of Nursing  
Instructor of Nursing, 2012, B.S.N., M.S.N. (Alabama)

Iddins, Brenda  
School of Nursing  
Instructor of Nursing, 2008, B.S.N., M.S.N., D.N.P. (UAB)

Iles, Karen E.  
School of Public Health  
Department of Environmental Health Science, Associate Professor, 2015, Ph.D. (Guelph), Research administration, especially conflict of interest regulations; cell-signaling responses to pulmonary injury focusing on pollutant-derived and bacterial insults; signaling mechanisms for endogenous antioxidants, such as glutathione, to decrease pulmonary injury; molecular nutrition and gene expression.

Irving, Howard L.  
College of Arts and Sciences  
Department of Music, Professor of Music, 1981, B.Mus. (Centenary), M.M., Ph.D. (Louisiana State)

Jablonski, Rita S.  
School of Nursing  
Associate Professor of Nursing, 2012, B.S.N. (Holy Family), M.S.N. (La Salle), Ph.D. (Virginia)

Jack, Eric  
School of Business  
Department of Management, Information Systems and Quantitative Methods, Associate Professor of Management; Dean, Faculty Development and Research, 2001, B.S. (Georgia Institute of Technology), M.B.A. (Wright State), Ph.D. (Cincinnati)

Jannett, Thomas C.  
School of Engineering  
Department of Electrical and Computer Engineering, Professor Emeritus of Electrical and Computer Engineering, 1984, B.S.E., M.S.E. (UAB), Ph.D. (Auburn), Sensor Networks, Biomedical Instrumentation and Control Systems
Janowski, Gregg M.  
School of Engineering  
Department of Materials Science and Engineering, Professor of Materials Science and Engineering; Associate Provost for Assessment and Accreditation, 1990, B.S., M.S., Ph.D. (Michigan Technological), X-Ray Diffraction, Composite Materials, Physical Metallurgy, Structure-Processing-Property Relationships

Jenkins, David T.  
College of Arts and Sciences  
Department of Biology, Associate Professor of Biology, 1974, B.S., Ph.D. (Tennessee); Research Interest: Mycology, Microbiology

Jennings, Matthew  
School of Nursing  
Instructor of Nursing, 2009, B.A. (Augusta State); M.Ed. (Troy State)

Jepkemboi, Grace  
School of Education  
Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2008, B.Ed. (Egerton University, Kenya), M.A. (Moi University, Kenya), Ph.D. (UAB)

Jessee, Margaret Jay  
College of Arts and Sciences  
Department of English, Assistant Professor of English, 2013, B.A., M.A. (Tennessee), Ph.D. (Arizona); Gender Studies, Women's Literature, American Literature

Johnson, Karmie M.  
School of Nursing  
Instructor of Nursing, 2012, B.S., B.A., M.S.N. (UAB); B.S.N. (South Alabama)

Johnson, Margaret  
College of Arts and Sciences  
Department of Chemistry, Assistant Professor of Chemistry, 2013, B.S., Ph.D. (Simon Fraser)

Johnson, Marlene  
College of Arts Science  
Department of Theatre, Associate Professor of Theater, 2006, B.A. (Asbury), M.A. (Miami-Oxford), M.F.A. (Virginia Commonwealth)

Johnson, Walter  
College of Arts and Sciences  
Department of Mathematics, Instructor of Mathematics, Introductory Math Curriculum Director, 2002, B.S.EE. (Auburn), M.A.Ed. (UAB)

Johnston, Allen  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Information Systems, Director of Information Systems Programs, 2007, B.S. (LSU), M.B.A., PhD. (Mississippi)

Johnstone, John K.  
College of Arts and Sciences  
Department of Computer and Information Sciences, Associate Professor and Undergraduate Program Director of Computer and Information Sciences; Associate Professor of Ophthalmology, 1994, B.S. (Saskatchewan-Canada), M.S., Ph.D. (Cornell)

Jolly, Pauline  
School of Public Health  
Department of Epidemiology, Professor, 1991, M.P.H., Ph.D. (Johns Hopkins), Infectious Disease Epidemiology, International Health and Global Studies.

Jones, Alison  
School of Nursing  
Assistant Professor, 2015, B.S.N., M.S.N., Certificate, Ph.D. (Kentucky)

Jones, Harold P.  
School of Health Professions  
Professor and Dean, School of Health Professions, 2001, Ph.D. (Duke)

Jones, Warren T.  
College of Arts and Sciences  
Department of Computer and Information Sciences, Professor Emeritus of Computer and Information Sciences, 1979, B.S.E.E. (Georgia Institute of Technology), M.S. (Georgia State), Ph.D. (Georgia Institute of Technology), P.E. (Kentucky)

Judd, Suzanne E.  
School of Public Health  
Department of Biostatistics, Assistant Dean for Undergraduate Education, Associate Professor, 2008, Ph.D. (Emory), Vitamin D, Longitudinal Cohort Studies, Data Management, Stroke, Dietary Patterns and Population Nutrition

Jukkala, Angela  
School of Nursing  
Associate Professor of Nursing, 2006, B.S.N. (Bemidji State), M.S., Ph.D. (Minnesota)

Jun, Ho-Wook  
School of Engineering  
Department of Biomedical Engineering, Associate Professor of Biomedical Engineering, 2006, BS, MS (Hanyang University, South Korea), Ph.D. (Rice), Biomimetic nanotechnology, Biomaterials, Tissue engineering

Jung, Paul  
College of Arts and Sciences  
Department of Mathematics, Assistant Professor of Mathematics, 2011, Ph.D. (University of California System: Los Angeles), Probability Theory and Statistical Mechanics

Kain, Margaret M.  
Mervyn H. Sterne Library  
Mervyn H. Sterne Library, Senior Assistant Librarian; Electronic Resources Librarian; Cataloging Collection Management, Mervyn H Sterne Library, 2006, B.S. (Auburn-Montgomery), M.L.S. (Alabama)

Kamii, Constance  
School of Education  
Department of Curriculum and Instruction, Professor of Early Childhood Education, 1984, B.A. (Pomona College), M.A., Ph.D. (Michigan), Ed.D. (Wheelock College)

Kana, Rajesh K.  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, 2007, B.S. (Calicut), M.A. (Annamalai), Ph.D. (Indian Institute of Technology)

Kannappan, Ramaswamy  
School of Engineering  

Department of Biomedical Engineering, Assistant Professor of Biomedical Engineering, 2015, BPharm, MPharm (Tamilnadu DR. M.G.R. Medical University - India), Ph.D. (Niigata University - Japan), Aging cardiomyopathy, Cardiac stem cells

Karpeshina, Yulia
College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1995, M.S., Ph.D. (Saint Petersburg, Russia), Partial Differential Equations and Mathematics Physics

Kasman, Yakov
College of Arts and Sciences
Department of Music, Professor of Music; Artist in Residence, 2002, B.M. (Music College of Moscow Conservatory), M.M., D.M.A. (Moscow State Conservatory)

Kavouras, Ilias
School of Public Health
Department of Environmental Health Sciences, Associate Professor, 2015, Ph.D. (Crete, Greece), Air Pollution, Wildfires, Climate Change, Organic Aerosol, Asthma, Heart Disease

Kawai, Ryoichi
College of Arts and Sciences
Department of Physics, Associate Professor of Physics, 1991, B.S., M.S., Ph.D. (Waseda, Japan), Condensed-matter theory; biophysics theory; materials physics theory; computational physics; open quantum systems

Keitt, Andrew W.
College of Arts and Sciences
Department of History, Associate Professor of History, 1999, B.A. (Duke), M.A., Ph.D. (UC-Berkeley)

Keltner, Norman
School of Nursing
Professor of Nursing, 1990, B.S.N., M.S.N. (Fresno State), Ed.D. (San Francisco)

Kempf, Mirjam
School of Nursing
Associate Professor of Nursing, 2010, M.P.H., (UAB), Ph.D. (Institute for Medical Microbiology and Hygiene, Julius-Maximilians-Universat)

Kennedy, Karen
School of Business
Department of Marketing, Industrial Distribution and Economics, Associate Professor of Marketing and Industrial Distribution; Senior Associate Dean, Programs and Outreach, 2001, B.S. (Blue Mountain), M.S. (Florida State), M.B.A. (Georgia State), Ph.D. (South Florida)

Kennedy, Karen
School of Health Professions
Department of Administration Health Services, Associate Professor (Marketing), Cognitive Research, Diversity, Services Marketing, Organizational Culture, Interpersonal Trust Development, Qualitative Research Methods

Key, Susan
School of Business
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Management, 1995, B.A., J.D., M.B.A. (Illinois), Ph.D. (Pittsburgh)

Kharlampieva, Eugenia
College of Arts and Sciences
Department of Chemistry, Associate Professor of Chemistry, 2010, B.S. (ChelyabinskSt.), Ph.D. (Stevens Institute of Technology)

Kilgo, Jennifer L.
School of Education
Department of Curriculum and Instruction, Professor of Special Education, 1995, B.A. (Auburn), M.A. (UAB), Ed.D. (Alabama)

Kilgore, Meredith
School of Public Health
Department of Health Care Organization and Policy, Professor and Chair, 2002, Ph.D. (RAND Graduate School), Burden of disease associated with osteoporosis and related bone fractures and the effects of bone metastases on skeletal related events, an intervention to improve osteoporosis in the home health setting, the effectiveness of prophylactic enteric feeding tubes in patients undergoing treatment for head and neck cancer, and a study of the quality of primary care for patients diagnosed with cancer.

King, Jerry
School of Health Professions
Department of Clinical and Diagnostic Sciences, Assistant Professor, Respiratory Therapy Program, 2008, M.S. (UAB)

King, Matthew
College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 2014, B.A. (University of Virginia), M.A., Ph.D. (University of Maryland)

King, Pamela Sterne
College of Arts and Sciences
Department of History, Assistant Professor of History, 2004, B.A. (Samford), M.A. (UAB)

Kirby, Jason
School of Engineering
Department of Civil, Construction, and Environmental Engineering, Associate Professor of Civil, Construction and Environmental Engineering; Director, Sustainable Smart Cities Program, 2005, B.S. (Auburn), M.S., Ph.D. (Alabama), Environmental Engineering, Water Resources, Hydraulics

Kirkland, Lynn
School of Education

Kittredge, Brian
College of Arts and Sciences
Department of Music, Assistant Professor of Music; Director of Choral Activities, 2010, B.M. (Mansfield), M.M. (Eastman), D.M.A. (LSU)

Knight, Candace
School of Nursing
Instructor of Nursing, 2012, B.S.N. (UAB)

Knight, David C.
College of Arts and Sciences
Department of Psychology, Associate Professor of Psychology, 2007, B.S. (Truman State), M.S., Ph.D. (Wisconsin-Milwaukee)

Knowles, Ian W.
College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1979, B.Sc. (Adelaide), M.Sc., Ph.D. (Flinders-South Australia), Ordinary and Partial Differential Equations, Numerical Analysis

Koomullil, Roy P. School of Engineering
Department of Mechanical Engineering, Associate Professor of Mechanical Engineering, 2002, B.S. (Mahatma Gandhi University, India), M.S. (Indian Institute of Technology, India), Ph.D. (Mississippi State), High Performance Computing; Six Degrees of Freedom Simulation; Biomedical Flow Modeling

Kornegay, Randall W. School of Business
Department of Management, Information Systems, and Quantitative Methods, Instructor of Business Communication, 2006, B.A., M.A. (UAB)

Koskinen, Karla College of Arts Science
Department of Theatre, Professor of Theater, 2007, B.A. (Marquette), M.F.A. (Illinois State)

Kranz, Clare School of Nursing
Instructor of Nursing, 2015, B.S.N., M.S.N. (UAB)

Kravchuk, Elena College of Arts and Sciences
Department of Mathematics, Instructor of Mathematics, 2002, M.S. (Donetsk State – Ukraine), Ph.D. (NASU, Donetsk – Ukraine)

Kurata, Marilyn J. College of Arts and Sciences

Kyle, Chris College of Arts and Sciences
Department of Anthropology, Associate Professor of Anthropology, 2000, B.A. (Fl. Lewis College), M.A., M.Phil., Ph.D. (Columbia)

LaChenaye, Jenna School of Education
Department of Human Studies, Assistant Professor of Educational Psychology and Research, 2014, B.A. (Louisiana), B.S., Ed.S., Ph.D. (Louisiana State), M.S. (Florida State)

Lake, Lauren College of Arts and Sciences
Department of Art History, Associate Professor of Art; Chair, 2013, BA (University of Florida), M.F.A. (Madison-Wisconsin), Drawing

Laken, Debra E. School of Health Professions
Department of Clinical and Diagnostic Sciences, Associate Professor, Respiratory Therapy Program, 1999, M.A.E. (UAB)

Langston, Summer School of Nursing
Assistant Professor of Nursing; Co-Coordinator of AMNP Program, 2009, B.S.N. (Southern Mississippi), M.S.N., D.N.P. (UAB)

Lanzi, Robin Gaines School of Public Health
Department of Health Education and Health Promotion, Associate Professor, 2009, M.P.H., Ph.D. (UAB), Adolescent parenting, child maltreatment, maternal depression, early intervention programs, developmental outcomes, research methods, ethical issues, and social policy

Lariscy, Nichole College of Arts and Sciences
Department of English, Assistant Professor of English, 2005, B.A. (Georgia College and State University), M.A. (Northwestern), Ph.D. (Wisconsin-Milwaukee)

Lawson, Christopher M. College of Arts and Sciences
Department of Physics, Professor of Physics, 1993, B.S. (Oklahoma State), M.S. (Colorado), Ph.D. (Oklahoma State), Nonlinear optics; fiber optics; optical sensors; optical coherence imaging tomography; laser spectroscopy

Lee, Loretta School of Nursing
Assistant Professor of Nursing, 2002, B.S.N. (Alabama), M.S.N., Ph.D. (UAB)

Lee, Yookyong College of Arts and Sciences
Department of Social Work, Assistant Professor, 2013, B.A., M.S.W. (Michigan), M.A., Ph.D. (Columbia)

Leece, Ryan School of Business
Department of Accounting and Finance, Assistant Professor, BS (LSU); MSIS, PhD (Mississippi State)

Lemons, Jack E. School of Engineering
Department of Biomedical Engineering, Professor of Biomaterials; Professor of Surgery; Division Director, Orthopaedic Laboratory Research; Professor of Biomedical and Materials Engineering, 1968, Ph.D. (Florida), Biocompatibility profiles of surgical implant devices with an emphasis on the role(s) of element and/or force transfers along biomaterial-to-tissue interfaces

Levitan, Emily B. School of Public Health
Department of Epidemiology, Associate Professor, 2009, Sc.D. (Harvard, Comparative Effectiveness Research, Cardiovascular Epidemiology, Epidemiologic Methods

Lewis, Angela K. College of Arts and Sciences
Department of Government, Associate Professor of Government, 2003, B.A. (Alabama), M.P.A., Ph.D., (Tennessee)

Lewis, Roger T. College of Arts and Sciences
Department of Mathematics, Professor Emeritus of Mathematics, 1975, A.B. (Tennessee), M.S. (Florida Institute of Technology), Ph.D. (Tennessee), Differential Equations, Spectral Theory

Li, JunFang College of Arts and Sciences
Department of Mathematics, Associate Professor of Mathematics, 2008, B.A. (Wuhan Univ., China), Ph.D. (Oklahoma), Geometric Analysis and Non-linear Partial Differential Equations

Liber, George O.  
College of Arts and Sciences  
Department of History, Professor of History, 1987, B.A. (Indiana), M.A. (Harvard), Ph.D. (Columbia)

Lim, Hyeyeong  
College of Arts and Sciences  
Department of Justice Sciences, Assistant Professor and Honors Program Director, 2013, Ph.D. (Sam Houston State), Police Use of Force, Police Decision Making, Quantitative Methods, Program and Policy Evaluation

Lingasubramanian, Karthikeyan  
School of Engineering  
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2011, Ph.D. (South Florida), Hardware Security, Reliability and Low Power Design for Digital VLSI Circuits and Systems

Linville, Jason G.  
College of Arts and Sciences  
Department of Justice Sciences, Teaching Assistant Professor, 2004, B.S. (Ohio), M.S., Ph.D. (UAB), Forensic Biology, Entomology, Forensic Science Education

Littlefield, David L.  
School of Engineering  
Department of Mechanical Engineering, Professor of Mechanical Engineering; Chair of Mechanical Engineering, 2005, B.S., M.S., Ph.D. (Georgia Tech), Computational Mechanics; Impact Mechanics and Shock Physics; Weapons Effects

Loder-Jackson, Tondra  
College of Arts and Sciences  
Department of Human Studies, Associate Professor of Foundations of Education, 2003, B.S. (Birmingham-Southern), M.P.P. (Chicago), Ph.D. (Northwestern)

Lokey, Larry H.  
School of Engineering  
Department of Electrical and Computer Engineering, Instructor of Electrical and Computer Engineering, 2009, B.S.E., M.S.E.E. (UAB), Telecommunications, RC Communications, Engineering Education

Long, Jennifer M.  
Mervyn H. Sterne Library  
Mervyn H. Sterne Library, Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library, 1997, B. S. (Bowling Green), M.L.S. (Kent State)

Lucas, Linda C.  
School of Engineering  
Department of Biomedical Engineering, Professor of Biomedical Engineering; Provost, 1982, B.S. (Alabama), M.A., M.S., B.S.E., M.S.E., Ph.D. (UAB)

Lucius, Aaron L.  
College of Arts and Sciences  
Department of Chemistry, Professor of Chemistry, 2006, B.S. (Oregon State), Ph.D. (Washington U.)

Lund, Donald  
School of Business  
Department of Marketing, Industrial Distribution, and Economics, Assistant Professor of Marketing, 2009, B.S., M.B.A. (Missouri State) Ph.D. (Missouri, Columbia)

Ma, Ling  
College of Arts and Sciences  
Department of Foreign Languages and Literatures, Instructor of Chinese, 2013, B.A. (Jinan University, China), B.S. (UAB), Chinese Language Training Program (Troy; Sun Yat-sen University, China)

Mack, June  
College of Arts and Sciences  
Department of Communication Studies, Associate Professor of Theatre, 2001, B.A. (Hollins), M.F.A. (Florida State), M.Ed. (Harvard)

Madden-Lunsford, Kerry  
College of Arts and Sciences  
Department of English, Associate Professor of English; Director of Creative Writing, 2009, B.A., M.F.A. (Tennessee)

Maddox, John  
College of Arts and Sciences  
Department of Foreign Languages and Literatures, Assistant Professor of Foreign Languages, 2014, B.A., B.S.Ed., M.A. (Georgia), Ph.D. (Vanderbilt)

Mahapatra, Majoj K.  
School of Engineering  
Department of Materials Science and Engineering, Assistant Professor of Materials Science Engineering, 2015, B.Tech (University of Calcutta - India), M.Tech (IT-BHU - India), Ph.D. (Virginia Tech), Ceramics and glasses for advanced energy systems, Structural ceramics, Solid waste immobilization, Chemistry-processing-structure-property relationship, Electrochemistry, Materials degradation

Major, Melba  
College of Arts and Sciences  
Department of English, Assistant Professor of English, 2014, B.A. (Union), M.A., (UAB), M.F.A. (Antioch)

March, Joe L.  
College of Arts and Sciences  
Department of Chemistry, Professor of Chemistry; Associate Director, Science and Technology Honors Program, 1999, B.S., M.S. (Southwestern Texas), Ph.D. (Texas)

Marion, Ken R.  
College of Arts and Sciences  
Department of Biology, Professor Emeritus of Biology, 1971, B.A., Ph.D. (Washington University, St. Louis), Animal Natural History and Aquatic Environmental Biology

Marstrander, Jon  
School of Engineering  
Department of Electrical and Computer Engineering, Instructor of Electrical and Computer Engineering, 2005, B.S.E.E., M.S.E.E. (UAB), P.E. (Alabama), Signal and Image Processing, Embedded Systems, and Field Programmable Gate Arrays
Martin, Heather
Mervyn H. Sterne Library

Martyshkin, Dmitri V.
College of Arts and Sciences
Department of Physics, Research Assistant Professor, 2010, B.S. (Novosibirsk State University, Russia), M.S., Ph.D. (UAB), Development of spectroscopic characterization of doped laser materials; solid-state lasers; laser spectroscopy for molecular-sensing applications

Mayer, John C.
College of Arts and Sciences
Department of Mathematics, Professor of Mathematics; Associate Chair, Department of Mathematics, 1984, B.A. (Randolph-Macon), M.A., Ph.D. (Florida), Topology, Continuum Theory, Dynamical Systems, Mathematics Education

Mayoral-Hernández, Roberto
College of Arts and Sciences
Department of Foreign Languages and Literatures, Associate Professor of Spanish, 2008, Licenciatura (Universidad Complutense de Madrid), Diploma de Estudios Avanzados (Universidad Autónoma de Madrid), Ph.D. (Southern California)

McCain, Kevin
College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 2012, B.A., B.S. (Southeast Missouri State University), M.A. (University of Missouri-Columbia), Ph.D. (University of Rochester, New York)

McCarthy, Shannon N.
School of Education
Department of Human Studies, Assistant Professor of Counselor Education, 2014, B.A. (Pennsylvania State), M.A. (Central Florida), Ph.D. (Florida)

McClintock, James B.
College of Arts and Sciences
Department of Biology, Endowed University Professor, 1987, B.S. (California), M.S., Ph.D. (South Florida), Polar and Marine Biology

McComiskey, Bruce
College of Arts and Sciences
Department of English, Professor of English, 1998, B.A., M.A. (Illinois State), Ph.D. (Purdue), Rhetorical and Composition

McCormick, Lisa
School of Public Health
Department of Health Care Organization and Policy, Associate Professor; Director of the Office of Public Health Practice, Dean’s Office, 2010, Dr.P.H. (UAB), Public health preparedness and response, the organization of response systems, and assessing interorganizational networks as a dimension of response capacity and community resiliency

McCUTCHEON, Martin J.
School of Engineering
Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering, 1967, B.S.E.E., M.S.E.E., Ph.D. (Arkansas), P.E. (Alabama)

McDaniel, David R.
School of Engineering
Department of Mechanical Engineering, Research Associate Professor of Mechanical Engineering, 2008, B.S. (US Air Force Academy), M.S. (George Washington University), Ph.D. (Colorado, Colorado Springs), High Performance Computing; Computational Fluid Dynamics; Multidisciplinary Air Vehicle Simulation

McFarland, Carl E. Jr.
College of Arts and Sciences
Department of Psychology, Professor of Psychology, Co-Director, Undergraduate Neuroscience Program, 1975, B.A., M.S., Ph.D. (Kansas)

McGrath, Shelly A.
College of Arts and Sciences
Department of Justice Sciences, Assistant Professor of Justice Sciences, 2008, B.S. (St. Mary’s), M.S. (Ball State), Ph.D. (Southern Illinois), Quantitative Methods, Crime Mapping, Violence

McGuinness, Teena
School of Nursing
Professor of Nursing; Interim Chair Community Health, Outcomes and Systems, 2007, B.S.N. (Old Dominion), M.S. (Virginia Commonwealth), Ph.D. (Pittsburgh)

McKnight, Andrew
School of Education
Department of Human Studies, Associate Professor of Foundations of Education, 2003, B.A. (Virginia Commonwealth), M.A.Ed. (William Mary), Ph.D. (North Carolina at Greensboro)

McLain, Rhonda
School of Nursing
Assistant Professor of Nursing; Assistant Dean for Undergraduate and Prelicensure Programs, 2005, B.S.N. (College of Mt. St. Joseph), M.N. (Emory), D.S.N. (UAB)

McLernon, Dennis J.
College of Arts Science
Department of Theatre, Professor of Theatre, Head of Performance, 2000, B.A. (Allentown), M.Ed. (Auburn-Montgomery), M.F.A. (Alabama-Alabama Shakespeare Festival)

McNulty, John E.
College of Arts and Sciences
Department of Government, Assistant Professor of Government, 2014, B.S. (Pennsylvania); M.A., Ph.D. (California at Berkeley)

McPherson, Heather A.
College of Arts and Sciences
Department of Art History, Professor of Art History, 1982, B.A. (Oregon), M.A. (Sorbonne), Ph.D. (Washington), Modern European Art (18th -20th Century), focusing on portraiture

Meadows, Lee
School of Education
Department of Curriculum and Instruction, Associate Professor of Secondary Education, 1993, B.A. (Mississippi), M.A. (Texas), Ph.D. (Georgia)
Meakin, Robert  
School of Engineering  
Department of Mechanical Engineering, Professor of Mechanical Engineering, 2007, B.S. (Brigham Young), M.S., Ph.D. (Stanford), Software Engineering for Multi-Disciplinary, Physics-Based Simulation Capability Development; Computational Geometry; Aerodynamics of Multiple-Bodies in Proximate Flight

Mehta, Tapan  
School of Health Professions  
Department of Physical Therapy, Assistant Professor, 2013, PhD (UAB)

Menear, Kristi S.  
School of Education  
Department of Human Studies, Professor of Kinesiology, 2001, B.A. (Louisiana), M.A., Ph.D. (New Orleans)

Meneses, Karen  
School of Nursing  
Professor of Nursing; Associate Dean of Research, 2007, B.S. (Georgetown), M.S., Ph.D. (Boston College)

Merritt, Stephen  
College of Arts and Sciences  
Department of Anthropology, Assistant Professor of Anthropology, 2013, B.S., M.A., Ph.D. (Rutgers)

Mersmann, James  
College of Arts and Sciences  
Department of English, Associate Professor of English, Emeritus, 1973, B.A. (Missouri-Kansas City), M.A., Ph.D. (Kansas)

Messina, Frank M.  
School of Business  
Department of Accounting and Finance, Professor of Accounting, 1993, B.S. (Livingston), M.Acc., Ph.D. (Mississippi State), C.P.A.

Metcalf, Sevante K.  
School of Business  
Department of Accounting and Finance, Instructor and Internship Coordinator, 2012, B.A., M.B.A. (UAB)

Michael III, Max  
School of Public Health  
Department of Health Care Organization and Policy, Professor and Dean, 2001, M.D. (Harvard)

Mieke B. Thomeer  
Colleg of Arts and Sciences  
Department of Sociology, Assistant Professor of Sociology, 2014, B.A. (Virginia), M.A., Ph.D. (Texas)

Millard, Andre J.  
College of Arts and Sciences  
Department of History, Professor of History, 1989, B.A. (Nottingham-England), M.A. (Mississippi), Ph.D. (Emory)

Miller, Brianna  
School of Health Professions  
Department of Clinical and Diagnostic Sciences, Assistant Professor, 2004, M.S. (UAB), Transfusion Medicine

Miller, Kenneth  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Instructor of Marketing and Industrial Distribution; Executive Director, MBA Programs, 2008, B.S. (Auburn), M.B.A. (Golden Gate), Ed.D. (Vanderbilt)

Miller, Stephen J.  
College of Arts and Sciences  
Department of History, Associate Professor of History, 2001, B.A. (Wisconsin-Madison), M.A., Ph.D., (UCLA)

Milligan, Gary  
School of Nursing  
Instructor of Nursing; Mobility Program Coordinator, 2008, B.S.N. (Birmingham-Southern), M.S.N. (Jacksonville State), M.S.H.A., D.N.P. (UAB)

Milner, Adrienne  
College of Arts and Sciences  
Department of Sociology, Teaching Assistant Professor of Sociology, 2012, B.A. (Emory), M.A., Ph.D. (Miami)

Miltner, Rebecca S.  
School of Nursing  
Assistant Professor of Nursing, 2010, B.S.N. (Georgia), M.S.N. (Wisconsin), Ph.D. (Maryland)

Minnix, Christopher  
College of Arts and Sciences  
Department of English, Assistant Professor of English; Director, Freshman Composition, 2012, B.S. (Grace College), M.A. (Radford), Ph.D. (Tennessee), Rhetorical Theory, Transnational Rhetoric, Compositions Studies, Writing Program Administration

Mirov, Sergey B.  
College of Arts and Sciences  
Department of Physics, University Professor, 1993, Master (Moscow Power Engineering Institute), Ph.D. (USSR Academy of Sciences), Experimental quantum electronics, solid-state lasers, laser spectroscopy

Mitchell, Dana  
School of Nursing  
Instructor of Nursing, 2009, B.S.N. (Alabama); M.S.N., D.N.P. (UAB)

Moak, Stacy C.  
College of Arts and Sciences  
Department of Social Work, Professor, 2016, B.S. (Southern Mississippi), J.D. (Loyola), Ph.D. (New Orleans)

Mohr, Robert D.  
College of Arts and Sciences  
Department of Physics, Instructor of Physics, 2003, B.S. (North Georgia), M.S. (Clemson), Ph.D. (Alabama), Computational applications to theoretical astrophysical problems

Moneyham, Linda  
School of Nursing  
Professor of Nursing; Senior Associate Dean for Academic Affairs, 2007, B.S.N. (Berea College), M.S.N. (Kentucky), D.S.N. (Indiana)

Monroe, Charles A.  
School of Engineering  
Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering, 2012, B.S. (Penn State), M.S., Ph.D. (Iowa), Metals Casting, Design for Manufacture, Process Modeling

Monti, Denise  
College of Arts and Sciences  
Department of Biology, Professor of Biology, 2013, B.S. (Cornell), M.P.H., Ph.D. (UAB), Microbiology
Moore, Hassan  
School of Engineering  
Department of Electrical and Computer Engineering, Associate Professor of Electrical and Computer Engineering, 2007, B.S. (Dillard), M.S. (Xavier), Ph.D. (Howard), Engineering Mathematics; Engineering Education; Non-Coaxial LIDAR Systems

Moore, John K.  
College of Arts and Sciences  
Department of Foreign Languages and Literatures, Associate Professor of Spanish, 2003, B.A. (University of the South), M.A.T. (Middle Tennessee State), Ph.D. (North Carolina-Chapel Hill)

Moradi, Lee  
School of Engineering  
Department of Mechanical Engineering, Professor of Mechanical Engineering, Director of Engineering and Innovative Technology Development, 1996, B.S., M.S., Ph.D. (UAB), Vibrations; Systems Engineering; Finite Elements Method

Morgan, Kathryn  
College of Arts and Sciences  
Department of Justice Sciences, Associate Professor of Justice Sciences; Director of African American Studies, 1991, B.S., M.A. (Texas Woman's), Ph.D. (Florida State), Corrections, Criminological Theory, Minorities, Violence

Morrison, Shannon  
School of Nursing  
Assistant Professor of Nursing, 2010, B.S.N., M.S.N. (Jacksonville State), Ph.D. (UAB)

Morrow, David R.  
College of Arts and Sciences  
Department of Philosophy, Assistant Professor of Philosophy, 2010, B.A. (John Hopkins); Ph.D. (CUNY)

Mosley, Michael  
School of Nursing  
Instructor of Nursing, 2015, B.S.N. (Jacksonville State); M.S.N. (UAB)

Moss, Jacqueline  
School of Nursing  
Professor of Nursing; Chair, Adult/Acute Health Chronic Care Foundations, 2011, B.S.N., M.S.N (Georgia State) Ph.D. (Maryland)

Mosteller, Paul W.  
College of Arts and Sciences  
Department of Music, Associate Professor of Music, 1988, B.S. (West Chester), M.M. (Juilliard), D.M.A. (Iowa)

Motley, Carol  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Marketing, 2011, B.S. (Southern Illinois), M.B.A. (Washington), Ph.D. (Georgia)

Mowling, Claire M.  
School of Education  
Department of Human Studies, Assistant Professor of Kinesiology, 2015, B.S., M.S. (Troy State), Ed.D. (Auburn)

Mrug, Sylvie  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, 2005, B.S., M.S., Ph.D. (Purdue)

Muccio, Donald D.  
College of Arts and Sciences  
Department of Chemistry, Professor of Chemistry, 1982, B.S., Ph.D. (Ohio State)

Mukhtar, Karolina  
College of Arts and Sciences  
Department of Biology, Assistant Professor of Biology, 2010, M.S. (Szczezcin), Ph.D. (Cologne), Plant Molecular Biology

Mukhtar, Shahid  
College of Arts and Sciences  
Department of Biology, Assistant Professor of Biology, 2010, B.Sc., M.Sc. (Faisalabad), Ph.D. (Cologne), Functional Genomics and Bioinformatics, Network Biology

Mulvihill, Beverly  
School of Public Health  
Department of Health Care Organization and Policy, Associate Professor, 1992, M.Ed. (North Carolina - Chapel Hill) Ph.D. (Texas Women's), Child Development, Children with and At-Risk for Disabilities, Early Intervention, Child Care Issues

Mumford, Gregory  
College of Arts and Sciences  
Department of Anthropology, Associate Professor of Anthropology, 2007, B.S., M.A., Ph.D. (Toronto)

Munchus III, George M.  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Professor of Management, 1976, B.S., M.B.A., Ph.D. (North Texas State), A.P.S.

Murphy, Danny L.  
School of Nursing  
Instructor of Nursing, 1988, B.S. (Wayland Baptist); M.E.N.G. (UAB)

Murray, Pamela S.  
College of Arts and Sciences  
Department of History, Professor of History, 1990, B.A. (New Mexico State), M.A., Ph.D. (Tulane)

Musa, Phillip F.  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Management, 2000, B.S., M.S., M.B.A. (Texas Tech)

Nabors, Eddie  
School of Business  
Department of Accounting and Finance, Instructor of Accounting, 2011, B.S. (Alabama), M.Acc. (University of West Florida)

Nakhman, Arie  
School of Engineering  
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 2011, B.Sc., M.Sc., Ph.D (Technion - Israel Institute of Technology), Computer Vision, Visual Tracking, Biomedical Image Analysis, Systems and Control

Navarette, Liliana  
School of Health Professions  

Department of Clinical and Diagnostic Sciences, Assistant Professor, 2008, M.S. (Alabama), Instrumentation, Minority Health Disparities, Physics Education

Navasca, Carmeliza
College of Arts and Sciences
Department of Mathematics, Assistant Professor of Mathematics, 2012, B.A. (California - Berkeley), Ph.D. (California - Davis), Multilinear Algebra, Control Theory, Optimization, Data Mining

Neilson, Michael J.
College of Arts and Sciences
Department of Chemistry, Professor Emeritus of Geology, 1975, B.S., M.S., Ph.D. (New England, Australia)

Neiva, Eduardo
College of Arts and Sciences
Department of Communication Studies, Professor of Communication Studies, 1993, B.A. (Catholic University of Rio de Janeiro), M.A., Ph.D. (Federal University of Rio de Janeiro)

Nelson III, Leonard
School of Public Health
"Jack"
Department of Health Care Organization, Adjunct Professor, 1987, JD (Gonzaga); LLM (Yale), Health care law; ethics

Nelson, Catherine N.
School of Education
Department of Curriculum and Instruction, Associate Professor of Special Education, 1993, B.S. (Millsaps), M.A. (Louisiana State), Ph.D. (North Texas)

Nelson, Dalton S.
School of Engineering
Department of Electrical and Computer Engineering, Assistant Professor of Electrical and Computer Engineering, 1994, B.S.E.E., M.S.E.E., (UAB), Ph.D. (UAH), P.E. (Alabama), Intelligent Control Systems, Medical Instrumentation, Software Systems and Algorithm Development

Nichols, Lynn Stover
School of Nursing
Interim Assistant Dean, 014, B.S.N., M.S.N., Ph.D. (UAB)

Nichols, Robert H.
School of Engineering
Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2002, B.S. (Mississippi State), M.S., Ph.D. (Tennessee), Propulsion; Computational Fluid Dynamics; Turbulence Modeling

Nikles, Jacqueline A.
College of Arts and Sciences
Department of Chemistry, Associate Professor of Chemistry, 2001, B.S. (Marietta College), Ph.D. (Case Western Reserve)

Ning, Haibin
School of Engineering
Department of Materials Science and Engineering, Assistant Professor, 2010, B.E. (Central South University, China); M.S. (Guangxi University, China), Ph.D. (UAB), Polymer Matrix Composite Materials, Metal; Design and Modeling

Nkashama, Mubenga N.
College of Arts and Sciences

Department of Mathematics, Professor of Mathematics, 1989, B.S., M.S. M.S., Ph.D. (Catholic University of Louvain, Belgium), Partial Differential Equations; Nonlinear Analysis; Continuous Dynamical Systems

Nordlund, Thomas M.
College of Arts and Sciences
Department of Physics, Associate Professor of Physics, 1990, B.A. (Oregon), M.S., Ph.D. (Illinois), Physics education; biological imaging and self-assembly

O’Beirne, Rosie
College of Arts and Sciences

O’Kelley, Sarah E.
College of Arts and Sciences
Department of Psychology, Assistant Professor of Psychology, 2012, B.A., M.A., Ph.D. (Alabama)

Olive, J. Fred
Mervyn H. Sterne Library

Oliveira, Anna
School of Health Professions
Department of Clinical and Diagnostic Sciences, Assistant Professor, 2011, DrPH (UAB), Infectious Diseases, Global Health, Food Safety

Oliver, Nathan
School of Business
Department of Management, Information Systems, and Quantitative Methods , Instructor of Management, 2003, B.S. (UAB), M.B.A. (Alabama AM)

Orihuela, Carlos L.
College of Arts and Sciences
Department of Foreign Languages and Literatures, Associate Professor of Spanish, 1994, B.A. - Licenciatura in Literature (Universidad Nacional Mayor De San Marcos, Lima), M.A., Ph.D. (Pittsburgh)

Oversteegen, Lex G.
College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1980, Kandidaat Doctorandus (Amsterdam), Ph.D. (Wayne State), Topology, Continuum Theory, Dynamical Systems

O’Leary, Malinda Blair
College of Arts and Sciences
Department of Foreign Languages and Literatures, Assistant Professor of Spanish, 2005, B.A., M.Ed. (UAB), Ph.D. (Alabama)

O’Neal, Marcia R.
School of Education
Department of Human Studies, Research Associate Professor, 1998, B.A. (UCLA), B.S., M.A., Ph.D. (Alabama)

O’Neil, Peter V.
College of Arts and Sciences
Department of Mathematics, Professor Emeritus of Mathematics, 1978, B.S. (Fordham), M.S., Ph.D. (Rensselaer Polytechnic Institute), Graph Theory, Combinatorics

Page, Amy  
College of Arts and Sciences  
Department of Theatre, Assistant Professor of Theatre, 2014, B.A. (Winston), M.F.A. (North Carolina)

Panion III, Henry  
College of Arts and Sciences  
Department of Music, Professor of Music, 1987, B.S. (Alabama AM), M.A., Ph.D. (Ohio State)

Parcak, Sarah H.  
College of Arts and Sciences  
Department of Anthropology, Associate Professor of Anthropology, 2006, B.A. (Yale), M.A., Ph.D. (Cambridge)

Parris, Kaitrin  
School of Nursing  
Instructor of Nursing, 2014, B.S.N. (William Carey); M.S.N. (Phoenix); D.N.P. (Case Western)

Parrish, Sherry  
School of Education  
Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2011, B.S. (Samford), M.A.Ed. (UAB), Ed.D. (Samford)

Patrician, Patricia  
School of Nursing  
Professor of Nursing; Banton Professorship, 2008, B.S.N. (Wilkes), M.S.N. (Texas), M.S. (U.S. Army War College), Ph.D. (Pennsylvania)

Patterson, Heath  
School of Nursing  
Instructor of Nursing, 2012, B.S.N. (UAB), PharmD (Auburn)

Patterson, James C.  
College of Arts and Sciences  
Department of Chemistry, Assistant Professor of Chemistry, 2007, B.A. (Carleton), Ph.D. (California – Santa Barbara)

Paustian, Pamela E.  
School of Health Professions  
Department of Health Services Administration, Assistant Professor and Program Director, Health Care Management Program, 2001, PhD (UAB), Leadership Resilience, Managerial, and Operational Practices in Healthcare, Technology Driven Approaches to Education

Pellathy, Elisabeth  
Colleg of Arts and Sciences  

Pence, Gregory E.  
College of Arts and Sciences  
Department of Philosophy, Chair Professor of Philosophy, 1976, B.A. (William and Mary), M.A., Ph.D. (New York)

Perakis, Ilias  
College of Arts and Sciences  
Department of Physics, Professor and Chair, 2015, BS (National Technical - Athens, Greece); MS, PhD (Illinois, Urbana-Champaign)

Perkins Waters, Martinique  
School of Public Health  
Department of Health Education and Health Promotion, Adjunct Assistant Professor, Psychology

Perry, Tonya  
School of Education  
Department of Curriculum and Instruction, Associate Professor of Secondary Education, 2002, B.A. (North Carolina), M.A., Ph.D. (UAB), NBPTS

Perumean-Chaney, Suzanne  
College of Arts and Sciences  
Department of Justice Sciences, Assistant Professor of Justice Sciences, 2004, B.S., M.S. (Nevada), Ph.D. (SUNY Albany), Quantitative Methods, Violence, Program Evaluation

Peters, Gary B.  
School of Education  
Department of Human Studies, Associate Professor, 2010, B.A., M.A. (Governors State), Ed.S., Ph.D. (UAB), Leadership; Organizational Theory

Peters, Robert W.  
School of Engineering  
Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering, 2001, B.S. (Northwestern), M.S., Ph.D. (Iowa State), P.E. (Indiana and Illinois), Environmental Engineering, Water and Wastewater Treatment, Hazardous Waste Treatment

Pevsner, Wanda D.  
School of Education  
Department of Curriculum and Instruction, Assistant Professor of Special Education, 2004, B.S. (Judson), M.A., Ph.D. (UAB)

Phillips, Jennan  
School of Nursing  
Assistant Professor of Nursing, 2008, B.S.N. (Samford), M.S.N., D.S.N. (UAB)

Phillips, Scott L.  
College of Arts and Sciences  
Department of Music, Associate Professor of Music, 2008, B.A. (Brigham Young), M.A. (Central Florida), Ph.D. (Iowa)

Pilkerton, Patty A.  
Mervyn H. Sterne Library  

Pillay, Selvum  
School of Engineering  
Department of Materials Science and Engineering, Associate Professor and Chair of Materials Science and Engineering, 2007, Bach (M L Sultan Technikon), M.S.M.E. (Florida AM), Ph.D. (UAB), Polymer Matrix Composites, Manufacturing and Processing, Design for Manufacture; R D to Commercialization

Pirkelbauer, Peter  
College of Arts and Sciences  
Department of Materials Science and Engineering, Associate Professor and Chair of Materials Science and Engineering, 2007, Bach (M L Sultan Technikon), M.S.M.E. (Florida AM), Ph.D. (UAB), Polymer Matrix Composites, Manufacturing and Processing, Design for Manufacture; R D to Commercialization
Plaisance, Eric
School of Education
Department of Human Studies, Assistant Professor of Kinesiology, 2013, B.S. (Nicholls State), M.S. (United States Sports Academy), Ph.D. (Auburn)

Pollard, Andrew
School of Engineering
Department of Biomedical Engineering, Professor of Biomedical Engineering, 1996, B.S.E., M.S.E., Ph.D. (Duke), Cardiac electrophysiology, Computer simulations and Modeling of electrical signals of the heart

Pollio, David
College of Arts and Sciences
Department of Social Work, Distinguished Professor and Chair, 2014, B.A., M.S.W. (Virginia), Ph.D. (Michigan)

Polson, Shannon
School of Nursing
Instructor of Nursing, 2010, B.A. (West Georgia); M.S.N. (UAB)

Ponder, Amy
School of Nursing
Instructor of Nursing, 2009, B.S.N. (UAB), M.S.N. (Samford)

Pond, Jennifer
School of Education
Department of Curriculum and Instruction, Associate Professor of Early Childhood and Elementary Education, 2015, B.S., M.A. (UAB), Ph.D. (Indiana)

Pollio, David
College of Arts and Sciences
Department of Communication Studies, Professor of Communication Studies, 1998, B.A., M.A. (Auburn), Ph.D. (Florida)

Powers, Thomas L.
School of Business
Department of Marketing, Industrial Distribution, Economics, Professor of Marketing and Industrial Distribution, 1985, B.S., M.B.A. (Eastern Michigan), Ph.D. (Michigan State)

Prado, Josephine
School of Education
Department of Curriculum and Instruction, Assistant Professor of English as a Second Language, 2013, B.A. (Agnes Scott College); M.A., Ph.D. (Alabama)

Prather-Kinsey, Jenice
School of Business
Department of Accounting and Finance, Professor of Accounting; Chair, Department of Accounting and Finance, 2001, B.S. (Lindenwood), M.S. (Illinois), PhD. (Alabama), C.P.A.

Preskitt, Julie
School of Public Health
Department of Health Care Organization and Policy, Assistant Professor, 2010, M.S.O.T., M.P.H. (UAB), Ph.D. (Auburn), Children with special health care needs, maternal and child health policy, disability policy, and underinsurance/adequacy of insurance

Price, Marjorie
College of Arts and Sciences
Department of Philosophy, Associate Professor of Philosophy, 1977, A.B. (Barnard), M.A., Ph.D. (New York)

Price, William
College of Arts and Sciences
Department of Music, Associate Professor of Music, 2006, B.M.E. (UNA), M.M., D.M.A. (LSU)

Pryor, Erica
School of Nursing
Associate Professor of Nursing, 2000, B.S.N. (UAH), M.S.N. (UAB), Ph.D. (Emory)

Puchta, Tami
College of Arts and Sciences
Department of Mathematics, Instructor, 2015, Ed.S. (UAB), Math Education

Quinlan, Kieran
College of Arts and Sciences

Quintana, Jose B.
School of Health Professions
Department of Health Services Administration, Associate Professor, 1989, PhD, Outcomes Management and Process Improvement, Quality

Racca, Joshua
School of Business
Department of Accounting and Finance, Assistant Professor of Accounting, 2011, Ph.D. pending University of North Texas (Denton, Texas)

Raut, Samiksha
College of Arts and Sciences
Department of Biology, Assistant Professor of Biology, 2012, B.S., M.S. (Nagpur), Ph.D. (UAB), Invertebrate Physiology

Rauterkus, Andreas
School of Business
Department of Accounting and Finance, Associate Professor of Finance, 2007, Diploma (J. W. Goethe University, Germany), M.B.A. (East Carolina), Ph.D. (Cincinnati)

Rauterkus, Melissa A.
College of Arts and Sciences
Department of English, Assistant Professor of English, 2013, B.A. (University of La Verne), M.A. (Claremont), Ph.D. (Northwestern)

Redden, David T.
School of Public Health
Department of Biostatistics, Professor and Chair of Biostatistics, 2001, Ph.D. (Alabama), Regression of Diagnostics, Admixture, Association Studies, Group Randomized Trials

Reilly, Kevin D.
College of Arts and Sciences
Reynolds, Jeff W.  
Department of Computer and Information Sciences, Professor Emeritus of Computer and Information Sciences, 1970, B.S. (Creighton), M.S. (Nebraska), Ph.D. (University of Chicago)

Reynolds, Robert C.  
Department of Chemistry, Research Professor of Chemistry, 2012, B.S. (University of Virginia), Ph.D. (Duke)

Rice, Marti  
Professor of Nursing, 1997, B.S.N. (Creighton), M.S.N. (Medical College of Georgia), Ph.D. (Georgia State)

Richmond, Virginia Peck  
Department of Communication Studies, Professor of Communication Studies, 2006, B.A. (West Virginia Institute of Technology), M.A. (West Virginia), Ph.D. (Nebraska)

Riddle, Nicole C.  
Department of Biology, Assistant Professor of Biology, 2012, B.S. (Missouri), Ph.D. (Washington University in St. Louis), Epigenetics and Chromatin Structure

Rinker, Erika H.  
Department of Foreign Languages and Literatures, Assistant Professor of German, 2008, B.A. (Wake Forest), M.A., Ph.D. (Washington in Saint Louis)

Rivera, C. Julio  
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Information Systems, 1988, B.S., M.S. (Texas AM), M.B.A. (Southern Mississippi), Ph.D. (Mississippi State)

Roberts, Steve  
Department of Music, Associate Professor of Music, 2007, B.M. (Oberlin), M.M., D.M.A. (Illinois)

Robicheaux, Robert A.  
School of Business

Department of Marketing, Industrial Distribution, Economics, Chair, Department of Marketing, Industrial Distribution, and Economics; Professor of Marketing and Industrial Distribution, 2004, B.S., M.B.A., Ph.D. (Louisiana State University)

Robinson, Cheryl  
School of Nursing  
Associate Professor of Nursing, 2011, B.S.N. (Alabama), M.S.N. (Colorado), D.N.S. (LSU)

Robinson, Robert R.  
College of Arts and Sciences  
Department of Government, Assistant Professor of Government, 2006, B.A. (Rhodes), M.A., PhD. (Wisconsin-Madison)

Roche, Cathy C.  
School of Nursing  
Associate Professor, 2011, B.S.N. (Alabama); M.S.N. (Colorado); D.N.S. (LSU)

Rodriguez, Christina M.  
College of Arts and Sciences  
Department of Psychology, Associate Professor of Psychology, 2013, B.S. (Miami); M.S., Ph.D. (Florida)

Rogers, Jack M.  
School of Biomedical Engineering, Professor of Biomedical Engineering, 1994, B.S., M.S., Ph.D. (California-San Diego), Cardiac electrophysiology, Computer simulations, Signal analysis of cardiac arrhythmias

Ross, Douglas H.  
School of Engineering  
Department of Mechanical Engineering, Assistant Professor of Mechanical Engineering, 2008, B.S. (Illinois), M.S., Ph.D. (UAB), Computer Aided Design; Undergraduate Education; Machine Design

Roussel, Linda  
School of Nursing  
Professor of Nursing, DNP Program Coordinator, 2013, B.S.N. (Williams Cary), M.S.N. (Southern Mississippi), Ph.D. (UAB)

Roy, Jane  
School of Education  
Department of Human Studies, Associate Professor of Kinesiology, 2001, B.S., M.A., PhD. (Alabama)

Rushton IV, William James  
College of Arts and Sciences  
Department of English, Assistant Director, Honors Program; Adjunct Lecturer of English, 1998, B.A. (Vanderbilt), A.B. (Oxford), M.A., Ph.D. (Virginia)

Russell, Jackie  
School of Business  
Department of Accounting and Finance, Instructor of Accounting, 2013, B.S. (Birmingham-Southern), M.Acc. (Birmingham-Southern), J.D. (Miles)

Ryan, Cynthia  
College of Arts and Sciences  
Department of English, Associate Professor of English; Director, Internships, 1998, B.S., M.A. (Illinois State), Ph.D. (Purdue), Composition, Professional Writing, Public Discourse, Medical Rhetoric

Saito, Yoshimi  
College of Arts and Sciences
Department of Mathematics, Professor Emeritus of Mathematics, 1983, B.A., M.A., Ph.D. (Kyoto, Japan), Scattering Theory, Differential Equations

Sample, Nevette  
School of Nursing  
Instructor of Nursing, 2014, B.A. (Duke); M.S.H.A. (UAB)

Samuels, Sue  
College of Arts and Sciences  
Department of Music, Associate Professor of Music; Director of Bands, 2003, B.M. (Furman), M.M. (Georgia State), Ph.D. (Auburn)

Santiago, Ana Maria  
College of Arts and Sciences  

Santoro, Nick J.  
School of Engineering  
Department of Mechanical Engineering, Research Associate Professor of Mechanical Engineering, 2007, B.S., M.S. (Alabama), Power Generation; Thermal Dynamics; Internal Combustion Engines

Sathiakumar, Nalini  
School of Public Health  
Department of Epidemiology, Professor, 1988, M.D., Dr.PH., Environmental Epidemiology, Occupational Epidemiology, Chronic Disease Epidemiology

Savage, Arline  
School of Business  
Department of Accounting and Finance, Department Chair and Professor of Accounting, 2012, Ph.D. (University of Port Elizabeth-South Africa), CA (SA)

Savage, Grant  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Professor of Management, 2011, B.A. (Connecticut), M.A., Ph.D. (Ohio State)

Saxena, Nitesh  
College of Arts and Sciences  
Department of Computer and Information Sciences, Associate Professor of Computer and Information Sciences; MS CFISM Program Co-Director, 2011, B.S. (Kharagpur), M.S., Ph.D. (University of California-Irvine)

Schimizzi, Anthony J.  
Mervyn H. Sterne Library  

Schnomeler, Kimberly A.  
College of Arts Science  
Department of Theatre, Associate Professor of Theatre, 1991, B.F.A. (Miami), M.F.A. (Northwestern)

Schwebel, David C.  
College of Arts and Sciences  
Department of Psychology, Professor of Psychology, Associate Dean of Research in the Sciences, 2000, B.A. (Yale), M.A., Ph.D. (Iowa)

Scott, Mary Katherine  
School of Education  
Department of Curriculum and Instruction, Instructor of Early Childhood and Elementary Education, 2010, B.S., M.A., Ed.S. (UAB)

Segner, E. P. Jr.  
School of Engineering  

Selinger, Nikita  
College of Arts and Sciences  
Department of Mathematics, Assistant Professor of Mathematics, 2015, Ph.D. (Jacobs University, Bremen), Conformal Dynamics; Teichmüller Theory

Selleck, Cynthia  
School of Nursing  
Professor and Associate Dean for Clinical Affairs Partnerships, 2010, B.S.N., (Emory), M.S.N. (Vanderbilt), D.S.N. (UAB)

Shackleford, Lee  
College of Arts Science  
Department of Theatre, Assistant Professor of Theatre, 2000, B.A. (UAB), M.F.A. (Southern Illinois)

Sharlach, Lisa  
College of Arts and Sciences  
Department of Government, Associate Professor of Government, 2004, B.A. (California), M.A. (California), Ph.D. (California - Davis)

Shealy, David L.  
College of Arts and Sciences  
Department of Physics, Professor of Physics, 1973, B.S., Ph.D. (Georgia), Geometrical optics; laser beam shaping optics; radiative transfer; caustic and optical aberration theory

Sheng, Shibin (Simon)  
School of Business  
Department of Marketing, Industrial Distribution, Economics, Associate Professor of Marketing, 2011, B.S. (Tsinghua University), Ph.D. Economics (Tsinghua University) Ph.D. Marketing (Virginia Tech)

Shipman, Sallie  
School of Nursing  

Shores, Melanie L.  
School of Education  
Department of Human Studies, Associate Professor of Educational Psychology and Research, 2005, B.S., M.A.M., M.A., Ph.D. (Auburn)

Shretenberg, Roman G.  
College of Arts and Sciences  
Department of Mathematics, Associate Professor of Mathematics, 2007, M.S., Ph.D (St. Petersburg State University – Russia), Mathematical Physics, Spectral Theory, Inverse Problems, Partial Differential Equations, Non-linear Partial Differential Equations

Sicking, Dean L.  
School of Engineering  
Department of Mechanical Engineering, Professor of Mechanical Engineering, 2012, B.S., M.S., Ph.D. (Texas AM), Crashworthiness Design; Sports Safety Equipment; Computational Mechanics
Siegel, Daniel
College of Arts and Sciences
Department of English, Associate Professor of English; Director, Undergraduate Studies, 2002, B.A. (Chicago), M.A., Ph.D. (Virginia), Nineteenth-Century British Literature and Culture, The Novel, Cinema

Simien, Clayton
College of Arts and Sciences
Department of Physics, Assistant Professor of Physics, 2013, B.S. (Prairie View AM), Ph.D. (Rice), Strongly correlated ultracold neutral plasmas; next generation frequency standards; precision measurements and variations in fundamental constants; quantum dipolar gases and rare-earth elements; laser cooling; nanotechnology; atomic sensors

Simien, Daneesh
School of Engineering
Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering, 2014, B.S., M.S., Ph.D. (Rice University), Self Corrective and Response, "Smart" Nano Scale Composite Materials, Structure-Property Relationships of Polymer Composites Inclusive of Rheological and Electrical Properties, Nano Scale Sensors and Flexible Robust Electronics

Simon, Cliff
College of Arts Science
Department of Theatre, Professor of Theatre, 2002, B.A. (Queens), M.F.A. (Texas-Austin)

Simpson, Laura
Mervyn H. Sterne Library

Sims, Michele
School of Education
Department of Curriculum and Instruction, Associate Professor of Reading and Secondary Education, 1999, B.A., M.S. (CUNY), Ed.D. (Pennsylvania)

Sims, Omar T.
College of Arts and Sciences
Department of Social Work, Assistant Professor, 2015, A.B., M.S.W., Ph.D. (Georgia)

Sims, Sandra
School of Education
Department of Human Studies, Assistant Professor of Kinesiology, 2005, B.S. (Montevallo), M.A. (UAB), Ed.S. (UAB), Ph.D. (Southern Mississippi)

Simányi, Nándor
College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1999, M.S., Ph.D. (Rolând Eőtvös - Hungary), Dr.M.S. (Hungarian Academy of Sciences), Dynamical Systems, Ergodic Theory, Topology

Sisiopiku, Virginia P.
School of Engineering
Department of Civil, Construction, and Environmental Engineering, Associate Professor of Civil, Construction and Environmental Engineering, 2002, B.S. (Aristotelian University of Thessaloniki), M.S., Ph.D. (Illinois-Chicago), Transportation Engineering, Traffic Engineering

Slaughter, Lauren
College of Arts and Sciences
Department of English, Assistant Professor of English, 2007, B.A. (Kenyon), M.F.A. (Alabama), M.A. (Montana)

Sloan, John
College of Arts and Sciences
Department of Justice Sciences, Professor of Criminal Justice and MSCFM Co-Director, 1988, B.S., M.A. (Eastern Michigan), Ph.D. (Purdue), Victimization and Fear of Victimization, Campus Crime, Policy, Program Evaluation, Professional Ethics

Sloan, Kenneth
College of Arts and Sciences
Department of Computer and Information Sciences, Associate Professor, 1990, Sc.B. (Brown), M.S. (Stevens Institute of Technology), Ph.D. (Pennsylvania)

Sloane, Michael E.
College of Arts and Sciences
Department of Psychology, Associate Professor of Psychology, Director, University Honors Program, 1982, B.A., M.A. (University College, Dublin), Ph.D. (Northwestern)

Slovensky, Donna J.
School of Health Professions
Department of Health Services Administration, Professor; Associate Dean, School of Health Professions, 1976, PhD (UAB), Information management to support quality improvement in healthcare; healthcare technology applications

Smith, Angel
School of Business
Department of Accounting and Finance, Instructor of Accounting, 2008, B.S., M.Ac. (UAB)

Smith, Glenda
School of Nursing
Assistant Professor of Nursing, 2006, B.S.N., (North Carolina Central), M.S.N. (Vanderbilt), D.S.N. (Texas-Houston Health Science Center)

Smith, Tedra
School of Nursing
Instructor of Nursing, 2012, B.S.N. (Auburn), M.S.N., D.N.P. (UAB)

Smith, Tommy G.
School of Education
Department of Curriculum and Instruction, Associate Professor of Secondary Education, 1989, B.S., M.S., Ed.D. (Auburn)

Smith, William M.
School of Engineering
Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering, 1994, B.S. (Oglethorpe), Ph.D. (Duke)

Snyder, Scott W.
School of Education
Department of Human Studies, Associate Professor of Research and Early Childhood Special Education, 1988, B.A. (SUNY-Potsdam), M.S., Ph.D. (Purdue)

Somerall, D'Ann
School of Nursing
Assistant Professor of Nursing, 2010, B.S., M.S., B.S.N., M.S.N., D.N.P. (UAB)
Song, Yuhua  School of Engineering
Department of Biomedical Engineering, Assistant Professor of Biomedical Engineering, 2006, B.S. (Jilin University of Technology), M.S. (Harbin University of Science and Technology), Ph.D. (Harbin Institute of Technology), Computational biomechanics, Computational biology, Multiscale modeling

Sorge, Robert  College of Arts and Sciences
Department of Psychology, Assistant Professor of Psychology, 2012, H.B.Sc. (McMaster), M.A. (Wilfrid Laurier), Ph.D. (Concordia)

Souillac, Geneviève  College of Arts and Sciences
Department of Anthropology, Visiting Associate Professor, 2016, B.A. (Sydney), M.A.s (Sydney, EHESS Paris, KU Leuven), Ph.D. (Hong Kong)

Spence, Paul H.  Mervyn H. Sterne Library

Spezzini, Susan K.  School of Education
Department of Curriculum and Instruction, Associate Professor of English as a Second Language, 2005, B.A., M.A. (California), Ph.D. (Alabama)

Sprague, Alan P.  College of Arts and Sciences
Department of Computer and Information Sciences, Professor of Computer and Information Sciences; Associate Professor of Medicine, 1988, B.A. (Oberlin), M.A.T. (Northwestern), M.S., Ph.D. (Ohio State)

Stanford, Robert E.  School of Business
Department of Management, Information Systems, and Quantitative Methods, Professor of Quantitative Methods, 1992, B.A. (University of the South), M.A. (Georgia Institute of Technology), Ph.D. (California-Berkeley)

Stanishevskaya, Irina N.  Mervyn H. Sterne Library
Mervyn H. Sterne Library, Senior Assistant Librarian, Cataloging Collection Management, Mervyn H. Sterne Library, 2008, B.S. (Belarusian University of Culture), M.L.I.S. (Alabama)

Stanishevsky, Andrei V.  College of Arts and Sciences
Department of Physics, Associate Professor of Physics, 2002, M.S. (Minsk Radioengineer Institute-USSR), Ph.D. (Belarus Academy of Sciences –USSR), Focused ion beam micro- and nanofabrication; PVD thin films deposition, characterization, and application; nanoparticle research

Stanley, Glenda  School of Nursing
Instructor of Nursing, 2015, B.H.S. (Kentucky); M.A. (Moorehead State)

Stansell, Laura R.  College of Arts and Sciences

Starr, Shannon  College of Arts and Sciences
Department of Mathematics, Assistant Professor of Mathematics, 2012, B.A. (California - Berkeley), Ph.D. (California - Davis), Mathematical Physics and Probability

Stavrinos, Despina  College of Arts and Sciences
Department of Psychology, Assistant Professor of Psychology, Director, Translational Research for Injury Prevention (TRIP) Laboratory, 2011, B.S. (Alabama), M.A., Ph.D. (UAB)

Steadman, Laura  School of Nursing
Assistant Professor of Nursing, 2010, B.S.N. (Auburn University), M.S.N. (Troy State), Ed.D. (Alabama)

Steele, Brian D.  College of Arts and Sciences
Department of History, Associate Professor of History, 2005, B.A., M.A. (Tulsa), Ph.D. (UNC)

Stepanikova, Irena  College of Arts and Sciences
Department of Sociology, Assistant Professor of Sociology, 2012, B.A. (Campbellsville), M.A. (Masaryk), Ph.D. (Stanford)

Stephens, Jerry W.  Mervyn H. Sterne Library

Stocks, Douglas R.  College of Arts and Sciences
Department of Mathematics, Associate Professor Emeritus of Mathematics, 1969, B.A., M.A., Ph.D. (Texas)

Stokely, Ernest M.  School of Engineering
Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering; Associate Dean Emeritus of Engineering, 1990, B.S.E.E. (Mississippi State), M.S.E.E., Ph.D. (Southern Methodist), P.E. (Texas)

Stolz, Günter  College of Arts and Sciences
Department of Mathematics, Professor of Mathematics, 1994, Ph.D. (Frankfurt, Germany), Spectral Theory, Mathematical Physics

Stoppelbein, Laura  College of Arts and Sciences
Department of Psychology, Associate Professor of Psychology, 2011, B.S., M.A., Ph.D. (Alabama)

Strevy, Deborah  School of Education
Department of Curriculum and Instruction, Assistant Professor of Early Childhood and Elementary Education, 2004, B.S., M.A., Ph.D. (UAB)
<table>
<thead>
<tr>
<th>Name</th>
<th>School or College</th>
<th>Department or Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summerlin, Jennifer</td>
<td>School of Education</td>
<td>Department of Curriculum and Instruction, Instructor of Reading, 2011, B.A., M.A., Ph.D. (UAB), NBPTS</td>
</tr>
<tr>
<td>Swan, Nancy</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 2010, B.S., (UAB), A.D. (Wallace State Community College), B.S.N. (Georgia Southern), M.S.N. (Jacksonville State)</td>
</tr>
<tr>
<td>Szaflarski, Magdalena</td>
<td>College of Arts and Sciences</td>
<td>Department of Sociology, Assistant Professor of Sociology, 2012, B.A., M.A. (University of Michigan), Ph.D. (University of Cincinnati)</td>
</tr>
<tr>
<td>Sánchez-López, Lourdes</td>
<td>College of Arts and Sciences</td>
<td>Department of Foreign Language and Literature, Associate Professor of Spanish; Director, Spanish for Specific Purposes Certificate Program, 2001, B.A. (Universidad de Granada), M.A. (Southern Mississippi), M.A., Ph.D. (Universidad de Jaén)</td>
</tr>
<tr>
<td>Taheir, Hessam</td>
<td>School of Engineering</td>
<td>Department of Mechanical Engineering, Assistant Professor of Mechanical Engineering, 2010, B.S. (Isfahan University of Technology, Iran), M.S. (Amirkabir University of Technology, Iran), Ph.D. (Dalhousie, Canada)</td>
</tr>
<tr>
<td>Takamiya, Yumi</td>
<td>College of Arts and Sciences</td>
<td>Department of Foreign Languages and Literatures, Visiting Assistant Professor of Japanese, 2015, B.A. (Bunkyo University, Japan), M.A. (Wisconsin-Madison), Ph.D. (Purdue)</td>
</tr>
<tr>
<td>Talbot, Thomas F.</td>
<td>School of Engineering</td>
<td>Department of Mechanical Engineering, Professor Emeritus of Mechanical Engineering, 1967, B.M.E. (Auburn), M.S. (California Institute of Technology), Ph.D. (Georgia Institute of Technology), P.E. (Alabama, Georgia, Tennessee), Convection Heat Transfer; Renewable Energies; Building Energy Conservation</td>
</tr>
<tr>
<td>Talley, Michele</td>
<td>School of Nursing</td>
<td>Instructor of Nursing, 2009, B.S.N. (Alabama), M.S.N. (UAB)</td>
</tr>
<tr>
<td>Tanik, Murat M.</td>
<td>School of Engineering</td>
<td>Department of Electrical and Computer Engineering, Professor and Chair of Electrical and Computer Engineering, 1998, B.S. (Middle East Technical), M.C.S., Ph.D. (Texas AM), Software Systems Engineering, Quantum Information Theory, Embedded Systems</td>
</tr>
<tr>
<td>Taratoot, Cole</td>
<td>College of Arts and Sciences</td>
<td>Department of Public Administration, Assistant Professor (Government), 2008, B.S., M.P.A. (West Georgia), Ph.D. (Georgia), Administrative law, judicial politics, constitutional law, quantitative analysis</td>
</tr>
<tr>
<td>Taub, Edward</td>
<td>College of Arts and Sciences</td>
<td>Department of Psychology, University Professor of Psychology, 1986, B.A. (Brooklyn), M.A. (Columbia), Ph.D. (New York)</td>
</tr>
<tr>
<td>Taylor, Jennifer</td>
<td>School of Business</td>
<td>Department of Marketing, Industrial Distribution, Economics, Assistant Professor of Marketing, 2011, B.S. (Clemson University), M.B.A., Ph.D. (Georgia State University)</td>
</tr>
<tr>
<td>Temple, Cheryl</td>
<td>College of Arts and Sciences</td>
<td>Department of English, Instructor of English, 2005, B.S. (Missouri), M.A. (Chapman)</td>
</tr>
<tr>
<td>Temple, Gale M.</td>
<td>College of Arts and Sciences</td>
<td>Department of English, Associate Professor of English; Director, Graduate Studies, 2001, B.S. (Michigan), M.A., Ph.D. (Loyola-Chicago), Early American Literature and Culture</td>
</tr>
<tr>
<td>Terndrup, Thomas E.</td>
<td>School of Health Professions</td>
<td>Department of Health Informatics, M.D., Professor (Emergency Medicine)</td>
</tr>
<tr>
<td>Thacker, Robert W.</td>
<td>College of Arts and Sciences</td>
<td>Department of Biology, Professor of Biology, 2000, B.S. (Duke), M.S., Ph.D. (Michigan), Ecology and Systematics</td>
</tr>
<tr>
<td>Thomas, Vinoy</td>
<td>School of Engineering</td>
<td>Department of Materials Science and Engineering, Assistant Professor of Materials Science and Engineering, 2007, B.S., M.S. (University of Kerala, India), Ph.D. (Sree Chitra Tirunal Institute for Medical Sciences Technology, India), Polymeric Biomaterials and 3D Composite Scaffolds for Tissue Engineering, Nanomaterials and Nanodiamonds for Biomedical Applications, Green Materials Synthesis and Structure-Property Relationships</td>
</tr>
<tr>
<td>Tohani, Peter</td>
<td>School of Nursing</td>
<td>Assistant Dean of Student Affairs; Instructor of Nursing, 2008, B.S. (The United States Military Academy), MS (Pennsylvania State)</td>
</tr>
<tr>
<td>Tollefsbol, Trygve</td>
<td>College of Arts and Sciences</td>
<td>Department of Biology, Professor of Biology, 1998, B.S. (Houston), M.S., D.O., Ph.D. (North Texas Health Sciences Center), Gene Regulation in Cancer and Aging</td>
</tr>
<tr>
<td>Tomlinson, Dale</td>
<td>School of Nursing</td>
<td>Instructor of Nursing; RN-BSN Coordinator, 2007, B.S.N., M.S.N., D.N.P. (UAB), M.N. (LSU)</td>
</tr>
<tr>
<td>Trimm, Jerry &quot;Mickey&quot;</td>
<td>School of Health Professions</td>
<td>Department of English, Instructor of English, 2005, B.S. (Missouri), M.A. (Chapman)</td>
</tr>
</tbody>
</table>
Department of Health Services Administration, Associate Professor, Health Care Management, 2006, Ph.D. (UAB)

Tsoi, Georgiy  
College of Arts and Sciences  
Department of Physics, Research Assistant Professor of Physics, 2005, M.Sc. (Karkov, Ukraine), Ph.D. (NAS, Ukraine), Structural, magnetic and electrical properties of materials under high pressure

Tucker, Diane C.  
College of Arts and Sciences  
Department of Psychology, Professor of Psychology, Director, Science and Technology Honors Program, 1984, B.S., M.S., Ph.D. (Iowa)

Turan, Bulent  
College of Arts and Sciences  
Department of Psychology, Assistant Professor of Psychology, 2011, B.S. (Bogazici), M.A. (Loyola), Ph.D. (Stanford)

Turel, Noa  
College of Arts and Sciences  
Department of Art Art History, Assistant Professor of Art History, 2012, B.A. (State University of New York), M.A. (University of London), Ph.D. (California-Santa Barbara), North Renaissance Art, Late Medieval and Early Modern Visual Culture and Science, Performance Art and theory

Turner, Kevin  
College of Arts and Sciences  
Department of Music, Instructor of Music, 1998, B.A. (Trinity)

Turner, Lori  
School of Public Health  
Department of Health Behavior, Adjunct Professor, UAB Health Science, 2007, Ph.D.

Turner-Henson, Anne  
School of Nursing  
Professor of Nursing, 1982, B.S.N. (Medical College of Georgia), M.N. (Emory), D.S.N. (UAB)

Twieg, Donald B.  
School of Engineering  
Department of Biomedical Engineering, Professor Emeritus of Biomedical Engineering, 1990, B.A., M.S. (Rice), Ph.D. (Southern Methodist)

Tyson, Lawrence E.  
School of Education  
Department of Human Studies, Associate Professor of Counselor Education, 1997, B.A. (Atlantic Christian), M.Ed. (Rollins), Ph.D. (Mississippi State)

Uddin, Nasim  
School of Engineering  
Department of Civil, Construction, and Environmental Engineering, Professor of Civil, Construction and Environmental Engineering, 2001, B.S. (University of Engineering and Technology, Bangladesh), M.S. (Oklahoma-Norman), Ph.D. (SUNY Buffalo), P.E. (New York), Structural Engineering, Wind and Seismic Loads, Bridge Design

Usdan, Stuart  
School of Public Health  
Department of Health Behavior, Adjunct Professor; UA, Health Science, 2013, Ph.D.

Uswatte, Gitendra  
College of Arts and Sciences  
Department of Psychology, Professor of Psychology, 2001, B.A. (Princeton), M.A., Ph.D., (UAB)

Vaidya, Uday K.  
School of Engineering  
Department of Materials Science and Engineering, Professor of Materials Science and Engineering; Chair of Materials Science and Engineering; Director, Materials Processing and Applications Development (MPAD) Center, 2001, B.S.M.E. (Karnataka University, India), M.S. (Shivaji University, India), Ph.D. (Auburn), Composites Application Development; Thermoset and Thermoplastic Polymer Matrix Composites; Design, Manufacturing Processing Modeling; Nondestructive Evaluation and Dynamic Response; RD to Commercialization

Van Matre, Joseph G.  
School of Business  
Department of Management, Information Systems, and Quantitative Methods, Professor of Quantitative Methods, 1971, B.E.E., M.B.A. (Auburn), Ph.D. (Alabama)

Van Sant, John E.  
College of Arts and Sciences  
Department of History, Associate Professor of History, 2000, B.A., M.A. (UC-Davis), Ph.D. (Oregon)

Vance, David  
School of Nursing  
Associate Professor of Nursing; Ph.D. Program Coordinator, 2004, B.S. (Virginia Tech), M.S. (New Orleans), M.G.S. (Miami), Ph.D. (UAB)

Vantsevich, Vladimir V.  
School of Engineering  
Department of Mechanical Engineering, Professor of Mechanical Engineering, 2012, Dip.-Eng., Ph.D. (Belarussian National Technical University, Minsk, Belarus), D.Sc. (State Supreme Attestation Board, Moscow, Russia), Mechatronic Systems Design, Modeling and Control; Manned/Unmanned Ground Vehicle Dynamics and Design; Dynamics and Design of Robotic Manipulators

Vaughan, Loy O. Jr.  
College of Arts and Sciences  
Department of Mathematics, Associate Professor of Mathematics, 1969, B.A. (Florida State), M.S., Ph.D. (Alabama)

Vaughn, Gregg L.  
School of Engineering  
Department of Electrical and Computer Engineering, Professor of Electrical and Computer Engineering, 1979, B.S.E.E., M.S.E.E., Ph.D. (Alabama), P.E. (Alabama), Digital Communication, Image Processing, Radiation Effects

Velu, Sadanandan  
College of Arts and Sciences  
Department of Chemistry, Associate Professor of Chemistry, 2002, B.Sc., M.Sc. (Calicut – India), Ph.D. (Madras – India)

Verbeek, Peter  
College of Arts and Sciences  
Department of Anthropology, Associate Professor, 2015, B.S. (Ecker College), M.A., Ph.D. (Emory)

Vetter, Imelda L.  
Mervyn H. Sterne Library
Vines, Adam
College of Arts and Sciences
Department of English, Assistant Professor of English; Director, English Honors Program, 2006, B.A., M.A. (UAB), M.F.A. (Florida), Creative Writing, Poetry, Twentieth and Twentieth-First Century Poetry

Vohra, Yogesh K.
College of Arts and Sciences
Department of Physics, Professor of Physics, University Scholar, Associate Dean, 1992, B.S., M.S. (Delhi, India), Ph.D. (Bombay, India), High Pressure Materials Research, Growth and Characterization of Synthetic Diamond, and Nanoscale Materials for Biomedical Applications

Vyazovkin, Sergey
College of Arts and Sciences
Department of Chemistry, Professor of Chemistry, 2001, B.M.S., M.A., Ph.D., (Belorussian – Russia)

Wadas, Theresa
School of Nursing
Instructor of Nursing, 2004, B.S.N., (Troy State), M.S.N. (UAB)

Walden, Carolyn
Mervyn H. Sterne Library

Waldron, Christopher
School of Engineering
Department of Civil, Construction, and Environmental Engineering, Assistant Professor of Civil and Environmental Engineering, 2008, B.S.C.E. (Drexel); M.S.C.E., Ph.D. (Virginia Tech), P.E. (Commonwealth of Pennsylvania), Structural Engineering, Bridge Design, Engineering Mechanics

Walker, Chris D.
College of Arts and Sciences
Department of Social Work, Assistant Professor of Social Work, 1999, B.S.S.W., M.S.W. (Alabama)

Walker, Deborah Kirk
School of Nursing
Assistant Professor of Nursing, 2009, B.S.N., M.S.N. (Troy), D.N.P. (South Alabama)

Walker, Jeffery
College of Arts and Sciences
Department of Justice Sciences, Professor and Chair, 2015, PhD (Sam Houston), MA (Arkansas - Little Rock), BS (Arkansas)

Walsh, Peter M.
School of Engineering
Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2002, B.S. (Robert College, Turkey), M.A. (Wesleyan), Ph.D. (Cornell), Carbon Dioxide Sequestration; Combustion in Industrial Furnaces and Electric Utility Boilers; Control of Air Pollutant Emissions from Combustion

Wang, Pengfei
College of Arts and Sciences
Department of Chemistry, Professor of Chemistry, 2005, B.E., B.Sc. (Tsinghua, China), M.S. (Illinois-Chicago), Ph.D. (Wisconsin)

Wang, Yu-meii
School of Education
Department of Curriculum and Instruction, Associate Professor of Technology, 2002, B.A. (Harbin Normal University, China), Post Graduate Degree (Liao Ning University, China), Ph.D. (Oregon-Eugene)

Ward Jr., William A.
School of Engineering
Department of Mechanical Engineering, Research Professor of Mechanical Engineering, 2001, B.A. (South Alabama), M.S., Ph.D. (Purdue), Computer Performance Evaluation; High Performance Computing; Numerical Analysis

Ward, Walter D.
College of Arts and Sciences
Department of History, Associate Professor of History, 2010, B.A., M.A., (NCSU), M.A., Ph.D. (UCLA)

Warner, Daniel
College of Arts and Sciences
Department of Biology, Assistant Professor of Biology, 2012, B.S. (Iowa State), M.S. (Virginia Tech), Ph.D. (Sydney), Ecology and Evolutionary Biology

Warner, Gary
College of Arts and Sciences
Department of Justice Sciences, Instructor and Director of Research in Computer Forensics, 2007, B.S. (UAB), Digital Forensics, Cybercrime and Security

Warner, Vessela
College of Arts Science
Department of Theatre, Associate Professor of Theater, 2007, M.A. (Sofia University, Bulgaria), M.F.A. (National Conservatory of Theater, Bulgaria), Ph.D. (Washington)

Wasko, Molly McLure
School of Business
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Management; Chair, Department of Management, Information Systems, and Quantitative Methods, 2010, B.B.A., B.A. (James Madison), M.B.A. (Averett), Ph.D. (Maryland, College Park)

Watson, R. Douglas
College of Arts and Sciences
Department of Biology, Professor of Biology, 1988, B.S. (Southern Utah State), Ph.D. (Iowa), Endocrinology and Developmental Biology

Watts, Penni
School of Nursing
Instructor Director of Clinical Simulation and Training, 2002, B.S.N. (Auburn), M.S.N. (Troy State)

Watts, Stephen A.
College of Arts and Sciences
Department of Biology, Professor of Biology, 1987, B.S. (Auburn), M.S., Ph.D. (South Florida), Aquatic and Marine Biology

Waugh, Jonathan B.
Department of Health Professions
Faculty

Department of Clinical and Diagnostic Sciences, Associate Professor, Respiratory Therapy Program, 1999, Ph.D. (Ohio State)

Webb, Tera
School of Health Professions
Department of Clinical and Diagnostic Sciences, Teacher, 2013, M.S. (UAB)

Wech, Barbara
School of Business
Department of Management, Information Systems, and Quantitative Methods, Associate Professor of Management, 2001, B.S. (Wayne State), M.B.A. (Michigan State), Ph.D. (Louisiana State)

Weikard, Rudi
College of Arts and Sciences
Department of Mathematics, Professor of Mathematics; Chair, Department of Mathematics, 1990, Ph.D. (Technical University of Braunschweig, Germany), Ordinary and Partial Differential Equations, Mathematical Physics

Wells, Jaclyn
College of Arts and Sciences
Department of English, Assistant Professor of English, 2013, B.A. (Knox), M.A. (Southern Illinois University Carbondale), Ph.D. (Purdue), Rhetoric and Composition

Wenger, Lowell E.
College of Arts and Sciences
Department of Physics, Professor of Physics, 2003, B.S., M.S., Ph.D. (Purdue), Synthesis and characterization of magnetic materials, magnetic nanostructures, and high-temperature superconductors

Whall, Mary B.
College of Arts and Sciences
Department of Philosophy, Assistant Professor of Philosophy, 1993, B.S., B.A. (UAB), Ph.D. (Georgia)

Wheeler, Anne P.
College of Arts and Sciences
Department of Justice Sciences, Teaching Assistant Professor, 2012, J.D. (Harvard), Criminal Law, Procedure and Evidence, Law and Society, Litigation Skills and Strategies, Professional Ethics

Wibbels, Thane
College of Arts and Sciences
Department of Biology, Professor of Biology, 1993, B.S. (Nebraska), M.S. (Houston), Ph.D. (Texas AM), Reproductive and Conservation Biology

Wick, Timothy M.
School of Engineering
Department of Biomedical Engineering, Professor and Chair of Biomedical Engineering, 2005, B.S. (Colorado), Ph.D. (Rice), Tissue engineering and regenerative medicine, Bioreactor design, Drug delivery

Wilkinson, Larrell
School of Education
Department of Human Studies, Assistant Professor of Community Health and Human Services, 2012, B.S. (Tennessee State University), MSPh, Ph.D. (University of South Carolina), Health Education, Health Disparities/Health Equity, Access and utilization of health care services, Substance Abuse

Williams, Jessica
School of Health Professions
Department of Health Services Administration, Assistant Professor, 2005, PhD (UAB), The Role of Patients’ Unconscious Bias in the Delivery of Healthcare, Health Disparities

Wills, Edward L.
College of Arts and Sciences
Department of Physics, Research Associate Professor Emeritus of Physics, 1972, B.S., M.S. (Auburn), Ph.D. (Virginia)

Wilson, Craig
School of Public Health
Department of Epidemiology, Professor; Director of the Sparkman Center for Global Health, 2007, M.D., Infectious Disease Epidemiology; International Health and Global Studies

Wingate, Martha
School of Public Health
Department of Health Care Organization and Policy, Associate Professor; Director of the Maternal and Child Health Leadership Training Program, 2005, Dr.PH. (Birmingham-Southern), Preterm birth, fetal and infant mortality, racial and ethnic disparities in birth outcomes, and health policies related to pregnancy and infant health

Wingo, Nancy P.
School of Nursing
Instructor of Nursing, 2007, M.A. (Auburn); Ph.D. (UAB)

Wiser Jr., Frank R.
School of Nursing
Director of Grants Contracts; Instructor of Nursing, 2009, B.A., M.P.A. (Central Florida)

Witherspoon, Taajah
School of Education
Department of Curriculum and Instruction, Instructor of Early Childhood and Elementary Education, 2015, B.S. (ASU), M.A., Ed.S., Ph.D. (UAB)

Wittig, John W.
College of Arts and Sciences
Department of Communication Studies, Interim Chair, Department of Communication Studies; Associate Professor of Communication Studies, 1981, A.B. (Carson-Newman), M.A. (Florida), Ph.D. (Southern Illinois)

Wolfe, Joseph D.
College of Arts and Sciences
Department of Sociology, Assistant Professor of Sociology, 2013, B.A. (Millsaps), M.A. (Indiana), M.S. (Indiana)

Wood, Joseph
College of Arts and Sciences
Department of English, Assistant Professor of English, 2014, B.A. (Brandeis), M.F.A. (Arizona)

Worrell, James L.
School of Business
Department of Accounting and Finance, Associate Professor of Accounting, 2008, B.S., M.Ac., Ph.D. (Florida State)

Wright, Erin
College of Arts and Sciences
Department of Art History, Professor of Art, 2001, B.F.A. (Colorado State), M.F.A. (Arizona), Social/Political Poster Design, Logo design, Graphic Design History
Admission to Undergraduate Programs

UAB welcomes applications from all individuals whose preparation and abilities give them a reasonable chance of success in its programs. All applicants must offer acceptable evidence of ability and intent to meet the academic standards of the university. Admission into and placement within the university is determined by the Office of Undergraduate Admissions utilizing the criteria approved by the university. Admission decisions are based on a number of factors including a previous record of satisfactory academic performance, strength of curriculum, and test scores. Admission to the university is valid for one academic year.

The application for admission, application instructions, and application deadlines can be accessed at http://www.uab.edu/apply. Applications are processed in the order in which they are complete and ready for a decision.

Prospective students currently attending high school may apply as early as the summer before their senior year. Tentative admission will be granted on the basis of ACT or SAT scores and high school records through the junior year. A final official transcript reflecting work completed in the senior year and confirmation of graduation will be reviewed before a student’s final admission. Applicants must earn a high school diploma to be eligible for admission. A General Equivalency Diploma (GED) may be considered if the applicant is 19 years of age or older and does not have a high school diploma.
Prospective students currently attending another college or university may apply one year prior to the date of the desired term of enrollment. However, tentative admission will be granted with no more than one term pending on the basis of an evaluation of coursework from all colleges and universities attended. A final official transcript reflecting work completed will be reviewed before a student’s final admission.

Credentials and documentation required for admission vary by application status. To be considered official, all academic documents required for admission must be sent to UAB directly from the high school, colleges/ universities attended, and testing agencies. All credentials submitted as part of the application for admission become and remain the property of the university and will not be returned to the student, duplicated, or transferred to another institution.

Any change in a student’s record prior to enrollment will necessitate a new review of the application. Any omissions or misrepresentations on a student’s application for admission will automatically invalidate consideration by and acceptance to UAB. If, after a student is admitted to the university, information comes to light that indicates an applicant did not meet all admission requirements, the applicant’s offer of admission will be rescinded.

**Priority Application Deadlines**

Prospective students are encouraged to apply well in advance of the date of the desired term of enrollment but no more than one year.

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>November 1</td>
</tr>
<tr>
<td>Summer</td>
<td>March 15</td>
</tr>
</tbody>
</table>

The application for admission, application fee, and all supporting official academic documents must be complete and received in the Office of Undergraduate Admissions by 5 p.m. on the respective deadline date. If the deadline falls on a weekend or university holiday, applications will be considered the following business day.

**Admission to Specific Schools or Programs**

Admission to the university as an undergraduate student may not be the final step required to gain admission to the desired school or academic program. For the undergraduate programs listed below, additional steps are required:

- College of Arts and Sciences (Music, Musical Theatre, Neuroscience, Computer Science)
- School of Business
- School of Education (Teacher Education Program)
- School of Engineering
- School of Health Professions
- School of Nursing

Further information on the additional steps required is given in the section of this catalog devoted to the particular school/college.

**Declaration of School and Major**

Applicants are asked to indicate an intended major field of study on the application for admission. Applicants who do not have a general field of interest may request admission as Undeclared. International students must declare a major.

**Admission Appeal Procedure**

Applicants denied admission to the undergraduate program who believe they have extenuating circumstances that might justify a different decision may appeal for further consideration.

**Freshman**

1. Applicants must complete and submit a Supplemental Admission Application. Any academic or personal information that would help the committee to make a fair and informed decision should be provided. A Supplemental Admission Application may be obtained from the Office of Undergraduate Admissions.

2. Applicants must submit a letter of recommendation from a guidance counselor or teacher who can speak knowledgeably about the applicant’s academic background and potential.

3. Students who are admitted through this procedure may be admitted to the Blazing Start program or with terms and conditions set forth by the appeals committee.

**Non-Traditional Freshmen**

1. Applicants must submit a letter addressed to the Admission Appeals Committee which addresses several issues regarding educational goals:
   - What is your educational objective?
   - How would a UAB education help you achieve your personal or career goals?
   - What deterred you from enrolling in college before this time?
   - To what extent are these factors still pertinent today?
   - What challenges to successfully completing your education at UAB do you foresee?
   - What steps have you taken to prepare for academic success at UAB?
   - What support systems do you have in place to ensure success?

2. Students who are admitted through this procedure:
   - Will be admitted to and advised in the University Academic Success Center.
   - Must adhere to all policies and procedures of academic warning status.
   - Must limit their first-term course load to a maximum of 12 semester hours.

**Transfer/Former UAB Students**

1. Applicants must submit a letter addressed to the Admission Appeals Committee which addresses several issues regarding educational goals:
   - Reasons the applicant did not do satisfactory academic work when previously enrolled.
   - What the applicant has done since last enrolled in school.
   - What steps the applicant has taken to prepare for academic success at UAB.
   - Goals for personal development, career and education.
   - Why the applicant is now better able to complete goals than when last enrolled in school. In addition, former UAB students are highly encouraged to contact his/her former advisor to request information related to the student’s past performance prior to
leaving UAB. This information should be sent directly to the Office of Undergraduate Admissions by the academic advisor.

2. Students who are admitted through this procedure:
   • Will be admitted to and advised through the University Academic Success Center.
   • Must adhere to all policies and procedures of probation status.
   • Must limit their first-term course load to a maximum of 12 semester hours.

Both freshman and transfer/former student appeal documentation should be submitted to the attention of the Director of Undergraduate Admissions. Students who wish to appeal are highly encouraged to do so well in advance of the deadline. The deadline to submit all required appeal documentation is one week after the application for admission deadline of the desired term of enrollment.

Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP)

UAB awards credit to students who have earned designated scores on Advanced Placement (AP) Program examinations of the College Board. AP examinations are usually taken at the end of an AP-designed course of study in high school. Credit, if awarded, will be recorded without grades or quality points and will not, therefore, be included in the calculation of the grade point average.

Credits awarded by other institutions for Advanced Placement (AP), International Baccalaureate (IB), and the College Level Examination Program (CLEP) must be reevaluated to determine if credit will be awarded at UAB. Students wishing to submit such credits should send an official score report to the Office of Registration and Academic Records. UAB score requirements for Advanced Placement, International Baccalaureate, and the College Level Examination Program are available online (http://www.uab.edu/students/academics/transfer-and-other-credits).

Equal Opportunity Policy

UAB administers its educational programs and activities, including admission, without regard to race, color, religion, sex, sexual orientation, age, national origin, disability unrelated to job performance or Vietnam-era or disabled veteran status. The full text of this policy can be found http://sppublic.ad.uab.edu/policies/Pages/default.aspx.

Office of Undergraduate Admissions

Mailing Address for Documents and Credentials: Box 99 • 1720 2nd Ave S • Birmingham, AL 35294-4600

Physical Address: 1701 11th Avenue South • Birmingham, Alabama 35294-4412

(205) 934-8221 or (800) 421-8743 • ChooseUAB@uab.edu (undergradadmit@uab.edu) • www.uab.edu/apply

Freshman Admission

High School Graduates

1. Completion of a college preparatory curriculum to include the following:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
<td>To include composition and literature</td>
</tr>
<tr>
<td>Science</td>
<td>3 units</td>
<td>To include two courses with laboratory components</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 units</td>
<td>To include algebra I and II, geometry, pre-calculus or other college preparatory or advanced level senior math</td>
</tr>
<tr>
<td>Social Science</td>
<td>3 units</td>
<td>History, psychology, sociology, etc.</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>1 unit</td>
<td>One Language</td>
</tr>
</tbody>
</table>

2. Minimum high school grade point average (grades 9-12) of 2.25 on a 4.0 scale

3. Subject | Units | Description |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
<td>To include composition and literature</td>
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<tr>
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<td>Mathematics</td>
<td>3 units</td>
<td>To include algebra I and II, geometry, pre-calculus or other college preparatory or advanced level senior math</td>
</tr>
<tr>
<td>Social Science</td>
<td>3 units</td>
<td>History, psychology, sociology, etc.</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>1 unit</td>
<td>One Language</td>
</tr>
<tr>
<td>Additional Core Courses</td>
<td>3 units</td>
<td></td>
</tr>
</tbody>
</table>

4. Minimum ACT composite score of 20 or the equivalent score on the redesigned SAT.

Home Schooled Students

UAB welcomes applications from students who are schooled at home. Home schooled high school students are reviewed for admission and for academic scholarships following the same criteria utilized for students who attend public and private high schools. The official high school transcript should contain the titles of courses in each subject area beginning with grade nine, course grades, overall GPA on a 4.0 scale, course grading scale, signature and contact information of the school administrator. The teaching credentials of the home school teacher should be included.

Non-Traditional Freshmen

Minimum admission requirements for students who graduated from high school 4 years ago or more and have not attended college:

1. Minimum high school grade point average of 2.25 or GED score of 520.

Joint Admission Program

Freshman applicants seeking admission to UAB who do not meet admission requirements may be offered Joint Admission at one of UAB’s community college partners. This Joint Admission Program offer is based upon a holistic review of each applicant’s academic record.

Students who accept the offer of Joint Admission must meet the following requirements to participate in the program:

1. Maintain continuous full-time enrollment at the community college (fall/spring).
2. Earn an Associates Degree from the community college prior to transitioning to UAB through the Joint Admission Program.
3. Maintain a 2.0 GPA in all transferable college coursework.
4. Participate in New Student Orientation and confer with a UAB academic advisor prior to registering for their first term at UAB.

Joint Admission students will have the ability to utilize a variety of programs, resources and facilities at UAB while actively enrolled in the program, and transition directly to UAB once completing their Associates Degree.

Transfer Admission (http://uab.edu/transferapply)

Applicants with a minimum of 24 transferable college semester hours (not including dual enrollment coursework earned while attending high school) must:

1. Have a minimum grade point average of 2.0 in all such work.
2. Be considered in good standing at all previously attended colleges or universities.

Applicants who have earned college credits, but fewer than 24 semester hours, must have a 2.0 grade point average in all transferable college work attempted and also satisfy freshman admission requirements (See “Freshman Admission (http://catalog.uab.edu/undergraduate/academicstudentresources/admission/#freshmantext”).

Applicants who have earned college credits, but fewer than 24 semester hours, must have a 2.0 grade point average in all transferable college work attempted and also satisfy freshman admission requirements (See “Freshman Admission (http://catalog.uab.edu/undergraduate/academicstudentresources/admission/#freshmantext”).

Applicants who are permanent residents but attended a college or university outside of the United States must meet the same admission requirements as international students (See "International Admission (http://catalog.uab.edu/undergraduate/academicstudentresources/admission/#internationaltext)").

Eligibility of College Credits for Transfer

The eligibility of credit for transfer to UAB depends both on the subject matter of the credit and on the accreditation status of the institution that awarded the credit.

Technical/vocational credits or remedial credits, whether earned at UAB or at any other institution of higher education, are not eligible for transfer and may not, therefore, be used to satisfy degree requirements. The exception to this rule is when the transfer of certain courses applicable to specific professional degree programs is approved in advance by the appropriate department. The accepted courses will be posted only while the student is in the degree program approving the credit. If the student changes programs, the courses will be removed. Credits earned while on academic suspension from UAB or another institution may be eligible for transfer. However, the UAB forgiveness policy can only be applied to grades earned at UAB.

Transfer credit in academic subjects will be considered for transfer to UAB from post-secondary institutions that are fully accredited by one of the six regional accrediting associations (see below) that offer the baccalaureate degree or associate’s degree leading to the baccalaureate degree. If an institution is not yet accredited, but has acquired candidate status from a regional accrediting agency, then academic credits from the institution will be considered for transfer to UAB.

• Middle States Association of Colleges and Schools
• Higher Learning Commission (North Central Association of Colleges and Schools)
• New England Association of Schools and Colleges
• Northwest Association of Schools and Colleges
• Southern Association of Colleges and Schools
• Western Association of Schools and Colleges

Academic credit earned at Alabama Community Colleges during the initial organization of the Alabama College System (1965-1967) will be acceptable for transfer to UAB.

College courses completed at unaccredited non-candidate institutions are not usually considered for transfer to UAB. However, applicants with credits in this category may contact the Office of the Registrar for information on the “Credit by Portfolio (https://www.uab.edu/students/academics/item/904-credit-by-portfolio)” option. The official determination of acceptability of courses from other institutions is the responsibility of the Office of the Provost.

Students with credits from institutions outside the United States should review transfer of international credits (https://www.uab.edu/students/undergraduate-admissions/transfer/admissions-international/item/778-international-transfer-credits).

Credits awarded by other institutions for Advanced Placement (AP), International Baccalaureate (IB), and the College Level Examination Program (CLEP (http://www.uab.edu/testing/institutional-tests/clep)) must be reevaluated to determine if credit will be awarded at UAB. Students wishing to submit such credits should send an official score report to the Office of the Registrar.

Limitations of Transferred Credit

One half of the credit hours required for a degree may be transferred from a two-year college provided the courses are numbered as freshman-(100) and sophomore-level (200) courses.

Acceptance of Transfer Credits toward a Degree

College-level coursework transferred from a regionally accredited institution will be shown on the UAB transcript; however, applicability of the course toward a degree is determined by the student’s major department.

Admission as an International Student

International students are defined as any applicant who is not a U.S. Citizen or Permanent Resident. International students should apply at least six months in advance of desired attendance date in order to facilitate timely admission and enrollment.

Freshman Admission

Applicants who have completed secondary school abroad under a grading system different from the U.S. system must submit:

1. Minimum overall GPA of 2.25
2. Minimum TOEFL score of 77 on the Internet-based version or minimum IELTS score of 6.0 overall with a minimum of 5.5 on each section of the exam, if English is not the applicant’s native language.
3. ACT composite score of 20 or equivalent score on the redesigned SAT if English is the applicant’s native language. Prospective students on select government scholarship programs and entities sending students that have UAB institutional agreements may qualify for an exemption from this requirement.

A TOEFL or IELTS score is not required if the applicant has attended a U.S. high school for at least two years.
Transfer Admission
Applicants who have attended a college or university outside the United States must submit:

1. Minimum overall GPA of 2.0.
2. Minimum TOEFL score of 77 on the Internet-based version or minimum IELTS score of 6.0 overall with a minimum of 5.5 on each section of the exam, if English is not the applicant’s native language.

NOTE: Applicants who have earned fewer than 24 semester hours at a postsecondary institution will also need to meet the minimum admission requirements for freshmen.

Contingent Admission
International students meeting UAB’s academic admission standards but not the language criteria may be granted contingent admission and granted up to two years to attain English proficiency as indicated by required test scores.

International students who wish to be considered for contingent admission will need to be admitted to UAB’s Intensive English Program (IEP) as a condition of their admission. Students will need to submit an IEP online application (http://www.uab.edu/eli/iep/apply-now) and application fee to UAB’s English Language Institute (ELI) in addition to the standard application for undergraduate admission. Students will be required to attend the IEP until they successfully complete Level 5 of the program or achieve the minimum test score requirement for the TOEFL or IELTS.

Student Visa
To obtain documents for an F-1 or J-1 student visa, applicants must provide a letter verifying support from the student’s financial sponsor, an original or certified copy of a bank statement confirming a balance sufficient to cover the first year’s tuition, fees, and living expenses, and a clearance form if transferring from another school within the United States.

To meet the requirements of the F-1 visa, international students must be full-time students. Full-time students are defined as those earning a minimum of 12 semester hours of credit for two consecutive semesters.

All others must provide a copy of their visa or I-797 approval notices about their status to International Recruitment and Student Services (international@uab.edu).

Health Insurance
All international students are required to register with the UAB Student Health Service and to carry a health and accident insurance policy approved by the UAB Student Health Service.

Readmission of Former UAB Students
Former students who have not been enrolled in undergraduate courses at UAB for one academic year or more, or who have attended another college since their enrollment at UAB, must apply for readmission. Former students are subject to the same conditions as newly-admitted students.

Former UAB students who are returning to continue their programs of study should consult with their academic advisor or department chair to determine whether curriculum or degree requirements have changed since their last enrollment.

Post-Baccalaureate Admission
Degree Seeking
Persons with a baccalaureate degree who wish to seek a second baccalaureate degree must apply by the published deadline and have a minimum grade point average of 2.0 in all undergraduate coursework attempted.

Non-Degree Seeking
Persons with a baccalaureate degree who wish to:

1. Meet prerequisites for advanced programs or
2. Satisfy requirements for professional certification

Must apply by the published deadline and submit an official transcript from the college or university from which the baccalaureate degree was earned.

Admission as a Non-Degree Student
Students who wish to enroll in undergraduate courses with no intent of pursuing a degree should apply by the published deadline to be considered as a non-degree seeking student (Temporary, Transient, and Non-Degree Post-Baccalaureate). The following restrictions apply to non-degree students:

1. Ineligible for financial aid or for priority registration.
2. If a course is over-enrolled, non-degree students may be dropped in favor of degree-seeking students.
3. May not participate in intercollegiate sports.

Temporary
A prospective student seeking personal enrichment or career enhancement may be admitted as a Temporary student. Temporary students are limited to applying a maximum of 24 semester hours to a UAB degree program.

Applicants in this category must be at least 25 years of age unless enrolling in an approved certificate program. Students must provide a letter of good standing if they have attended another college or university within the last year.

Transient Students
Persons who want to transfer credit earned at UAB back to their home institution where they are enrolled as a full-time student may be admitted as Transient students.

Requirements: Applicants for Transient status must submit an official transcript or letter of good standing from the home institution. Enrollment as a Transient student is typically for one term, with a maximum of two consecutive semesters.

Change from Non-Degree to Degree Status
A student with a non-degree classification who wishes to change to a degree-seeking classification must reapply for admission by submitting an application for admission and application fee. To be admitted as a degree-seeking student, the individual must:

1. Meet the published application deadline and admission requirements.
2. Submit all documentation required for a degree-seeking applicant.
New Student Orientation

Concurrent Enrollment and Dual Enrollment/Dual Credit

UAB welcomes applications from exceptional high school juniors and seniors who wish to earn college credit while still enrolled in high school. Evidence must be presented that enrollment at UAB would enhance the student’s educational experience beyond that available in high school.

Requirements include:

1. A minimum grade point average of 3.0.
2. A recommended ACT score of 25 or SAT score of 1140 (combined critical reading and mathematics).
3. A letter of permission from a parent or guardian.
4. A letter of approval from the high school principal.

Concurrent Enrollment

A student applies for Concurrent Enrollment in order to take courses as a non-degree student at UAB, while concurrently enrolled as a junior or senior in high school. This option may be appropriate for students whose high schools do not participate in the Dual Enrollment/Dual Credit program.

Dual Enrollment/Dual Credit

The Dual Enrollment/Dual Credit option is available only to those students whose high schools have a formal Dual Enrollment/Dual Credit agreement with UAB. A high school junior or senior may apply for dual enrollment/dual credit in order to take courses as a non-degree student at UAB while still completing high school and apply credit earned at UAB both toward college requirements and toward the high school diploma.

Individual courses taken by dual enrollment/dual credit must be pre-approved by the student’s high school. Prior to each term of enrollment under the dual enrollment/dual credit option, the student must submit a letter from the high school identifying the pre-approved course(s) to be taken for dual credit.

Admission as an Auditor

Applicants who wish to audit credit courses must follow standard admission procedures and meet minimum admission requirements.

New Student Orientation

Orientation is offered several times prior to the beginning of each term for all incoming freshmen and transfer students. Sessions include information about resources and services available to students to help them be successful. Additionally, new students meet with faculty and academic advisors and register for classes. Attendance at New Student Orientation is required for all new degree-seeking freshmen and transfer students prior to their first term of enrollment.

Office of New Student Orientation

Hill Student Center, Suite 201 • 1400 University Boulevard • Birmingham, Alabama 35294 • Telephone: (205) 975-7999 • E-Mail: orient@uab.edu • Web: https://www.uab.edu/students/orientation

Student Life

UAB Student Experience would like to invite you to complete your UAB experience by becoming involved in the many activities and organizations available to you as a student. Events range from relaxing at free movies or comedy shows, involvement in student governance, cheering on the Blazers, writing for the Kaleidoscope student newspaper, rappelling down a cliff, hiking the Grand Canyon and so much more. Each semester brings new events, new organizations, opportunities to make friends, get physically fit, learn, socialize, relax, and have a good time becoming a part of the Blazer community! We want you to get involved!!

This section of the catalog contains an alphabetical list of many of the activities and organizations and activities available to students.

Contact Us:

Department of Student Experience

205-934-4175
studentlife@uab.edu
Physical Address:
Hill Student Center, Suite 401
1400 University Boulevard

Student Experience Offices:

Career & Professional Development
205-934-4324
careerservices@uab.edu
Physical Address:
Hill Student Center, Suite 307
1400 University Boulevard

Student A (https://www.uab.edu/students/services/advocacy-rights-and-conduct)Advocacy, Rights, & Conduct
205-975-9509
sarc@uab.edu
Physical Address:
Hill Student Center, Suite 303
1400 University Boulevard

Student Involvement & Leadership (https://www.uab.edu/students/student-life)
205-934-8020
getinvolved@uab.edu
Physical Address:
Hill Student Center, Suite 230
1400 University Boulevard

Student Multicultural & Diversity Programs
205-996-6778
diversity@uab.edu
Hill Student Center, Suite 311
1400 University Boulevard

Student Organizations
205-934-8020
bsync@uab.edu
Hill Student Center, Suite 230
The University of Alabama at Birmingham

Student Involvement & Leadership

The Office of Student Involvement and Leadership is responsible for developing the leadership capacity of students and supporting student organizations as integral members of the University community by serving as a leadership and organizational development clearinghouse. The mission of the Office of Student Involvement and Leadership is to serve as full partners in the collegiate experience by empowering students through intentional programs that foster personal and professional development, while enhancing campus pride and commitment to the greater Birmingham community.

Students who engage in programs, activities, and services provided by the Office of Student Involvement and Leadership will be able to choose opportunities that foster collaboration with others by finding value in the contribution of viewpoints that differ from their own, develop a spirit of public-mindedness that influences civic engagement with local and global communities while creating spaces that generate a more porous and interactive flow of knowledge between campus and community, and develop their leadership and professional skills (such as critical thinking, event planning, conflict resolution), allowing them to succeed in all roles of a team and use these skills to build a foundation for future career success.

Civic Engagement

The Office of Student Involvement and Leadership promotes and supports service and community involvement through engaging our students in a variety of meaningful service activities. The office serves as a resource center for community service programming in order to help students expand their understanding of social/community issues, develop leadership skills, and work on solutions to real life problems. The Blazers on Break alternative spring break program and Summer Service Weekends promotes community service, develops leadership skills, and creates strong bonds among participants who travel to another community to participate in volunteer work addressing issues such as environmental protection, children, affordable housing, hunger, education, HIV/AIDS awareness, and disabilities. Through local partner fairs and large scale programs like Into the Streets Day of Service, Awareness Weeks, and Martin Luther King, Jr. Day of Service, students can get involved in many ways to make a positive difference on the lives of others in our community.

Fraternities and Sororities

Looking to excel in you academics? Have incredible leadership opportunities? Give back to the community and a cause bigger than yourself? Most importantly, looking for a home away from home? The fraternities and sororities here have set the bar high for UAB students in terms of scholarship, leadership, philanthropy and service, and brotherhood and sisterhood. We currently have over twenty fraternities and sororities across four councils: the Panhellenic Council, Interfraternity Council, National Pan-Hellenic Council, and Multicultural Greek Council. Our diverse groups welcome students from all backgrounds, and will help you lay a foundation for success that lasts long after your college years have ended.

Leadership Programs

The Office of Student Involvement and Leadership coordinates campus-wide leadership programming to help students reach their potential in and out of the classroom. In addition to one-on-one leadership consultations, our office coordinates Leadership Foundations, a co-hort style leadership class, and programs such as Lunch with a Leader, Dinner with the Dean, the Fall Leadership Conference, the Winter Leadership Retreat, and the annual Etiquette Dinner.

Educating is an integral part of what our office does, whether it is offering weekly seminar-style learning through the LEAD (Leadership Education And Development) on Demand program, a chance to sharpen networking skills through an annual etiquette dinner, or how to be an effective leader as a member of UAB LEAD. We also offer a scholarship annually to an emerging leader.

Honor Societies

UAB recognizes many nationally affiliated honor societies that acknowledge scholastic achievement, citizenship, and outstanding leadership among students. Check out our honor societies at uab.edu/bsync.

Student Organizations

UAB recognizes over 150 student-led organizations concerned with the academic, social, and personal development of students. Organizations include groups with interests in religion, music, athletics, and cultural diversity. Additionally, nearly every academic major is represented by a student organization. Check out our organizations at uab.edu/bsync.

University Programs

University Programs bring entertaining, diverse, and educational events to UAB. University Programs produces Homecoming, TalentSearch, SpringFest, Fall Concert, Film Series, comedians, late night programs, music, and other special events.

Undergraduate Student Government

The Undergraduate Student Government Association (USGA) is the voice for the undergraduate student body and represents student issues, concerns, and views to the administration. USGA provides programs and services for undergraduate students in the Schools of Business, Education, Engineering, Health Professions, Nursing, Public Health, and the College of Arts and Sciences. Elections for these executive council and senate positions are held each Spring semester. Students can also serve on USGA committees or be appointed to the cabinet or student court. Freshman may get involved through Freshman Forum.

For more information, contact the Office of Student Involvement and Leadership, getinvolved@uab.edu, (205) 934-8020, Hill Student Center 230, www.uab.edu/studentaffairs.

Student Multicultural and Diversity Programs

Student Multicultural & Diversity Programs serves the UAB Community, especially our students, by developing programs and resources that promote multicultural and social justice awareness, education and appreciation. Additionally, we support the growth of students’ attitudes,
Student Multicultural & Diversity Programs focuses on the six areas of Cultural Engagement, Student Leadership, Dialogue and Critical Thought, Mentorship Programs, LGBTQ Programs, and Diversity Training, each creates opportunities for student involvement and education, advocacy, and awareness.

**UAB Community Week**
UAB Community Week is a campus-wide celebration of the diversity that exists within the UAB Community. The week and many of its events are sponsored by Student Multicultural and Diversity Programs in conjunction with the Department of Student Life and the Office for Equity and Diversity. The programs and events are designed to create awareness of different cultures and social groups by way of art, food, and musical presentations. Community Week also encourages dialogue and celebrates different racial and ethnic groups by its diverse lectures, programs, and activities. One of the signature events of the week is the President’s Diversity Award Banquet. At this event, an undergraduate, graduate and professional school student along with a faculty and staff member, are given an award for their efforts in diversity.

**Free Food for Thought**
Free Food For Thought is a dialogue series that encourages building a community that values diversity. Interested participants exchange viewpoints on selected topics, resulting in a greater awareness about issues and experiences across social and personal identities. Learning from one another through facilitated respectful discussion helps us value the contributions of our peers. In exchange for opinions, we provide Free Food.

**International Film Series**
The purpose for an International Film Series is to engage, educate, and involve the viewers beyond the visual medium. It should raise interesting questions by reflecting on shifting social or cultural boundaries or challenging certain boundaries, and allowing the viewers to reach their own conclusions. In doing so, these series of films not only aim to promote multiculturalism, but also to broaden the viewers’ emerging cultural awareness.

**Multicultural Council**
Interculture is UAB’s first university-wide multicultural programming committee. Resources are available to educate and encourage cross-cultural interaction among students of all races, nationalities, and ethnic origins. Heritage celebrations are held throughout the year.

**International Mentor Program**
UAB International Mentors is a program that provides incoming international students with valuable information about UAB, Birmingham, and the United States. International Mentors serve the UAB international community by offering programming, support, and assistance to better meet the needs of incoming new students. The mentors are chosen through a highly selective process each spring and go through extensive training to offer the best services possible.

**Blazer Male Excellence Network**
The BMEN Peer Mentoring Program is designed to provide academic and social support to Black male students entering UAB. BMEN’s overall goal is to improve the quality of life for the new student by partnering a returning student with a new student, and by staff providing information on navigating the collegiate experience inside and outside the classroom. The mentors are selected each spring and go through extensive training to offer the best services possible.

**Safe Zone**
Safe Zone is one way to say that all sexual orientations and gender representations are part of our culture and are acknowledged and supported. The Safe Zone Program provides a visible network of volunteers for gay, lesbian, bisexual, transgender and other students seeking information and assistance regarding sexual orientation.

**Theatre Activities**

**UAB Department of Theatre**
The UAB Department of Theatre presents several productions each year in the Alys Stephens Center’s Sirote Theatre and the Odess Theatre. Students of all majors can audition, build productions and participate on running crews for credit. Special ticket pricing is available for UAB students. For more information, contact the Department of Theatre at (205) 934-3236.

**Ambassadors**
The UAB Ambassador Program is the oldest and most prestigious student program on campus. This select group of 20 dedicated students are committed to the University by serving as the official hosts and hostesses at recognized activities and events of UAB. At all times, these student leaders represent UAB through their actions, demeanor, and speech. Ambassadors are selected each spring semester via application and interview.
The Good Games UAB (gg.UAB) program aims to create an environment that fosters a community of students with diverse backgrounds who actively engage in numerous eSports initiatives and activities throughout the school year. Our organization provides extensive programming, hands-on experience and mentoring to promote eSports culture within the community while increasing career awareness for students looking to jump-start their journey into the industry by connecting them with companies in the Greater Birmingham area. All students enrolled at UAB are eligible for membership.

Athletic Team Support Groups

Blazer support groups include the UAB Golden Girls, Cheerleaders (small coed), mascot (Blaze), Blazer Band, and the UAB Marching Blazers. These groups perform at UAB basketball, volleyball, and at a variety of events in Birmingham. Each spring tryouts are held and are based on performance and interviews. For more information on cheerleaders, mascot, and Golden Girls, contact the Athletic Team Support Office, Room 190, Campus Rec Center, (205) 975-5376 or email Ryan Martin at rmartin1@uab.edu (%20rmartin1@uab.edu). For information on the Blazer Band and the UAB Marching Blazers, call the band office at (205) 975-BAND (975-2263). You can also visit the website www.uab.edu/spirit.

Black Student Awareness Committee

The Black Student Awareness Committee (BSAC) is a multifaceted programming board with the goal of enhancing the UAB collegiate experience through the promotion of educational events and programs that explore the diaspora of Black culture. In addition to sponsoring year-round activities such as B-Spot (a modern arts showcase), Umoja New Student Welcome, Camille Armstrong Memorial Stepshow, Kwanzaa, and Dr. Martin Luther King Jr. Week, the committee also programs and coordinates a majority of the UAB Black History Month festivities as well as countless other social justice and social programs with a focus on creating safe and positive spaces for all students. Selection for BSAC takes place in the spring semester.

BlazeRadio

Hear music from your favorite artist, get the 411 on celebrity news and find out what's happening on campus 24 hours a day with BlazeRadio, UAB's student Web radio station. Tune in online, or download our Live365 smartphone app, and listen to the latest alternative, rock, hip hop, jazz, dance, and country music and more. You can also check out our popular news, sports, and talk shows that are all produced by and for UAB students.

If a job in radio is what you hope to achieve, BlazeRadio offers volunteer spots on the air and behind the scenes. Check the BlazeRadio site for details on programming, promotion, technology, and management positions. On-air slots require an audition. Get started by completing an application in the Office of Student Media.

To tune in, go to www.uab.edu/studentmedia and click on our live stream link. Our studio is located in Suite 130 in the Hill Student Center located at 1400 University Blvd. You can call us at (205) 934-3354 (WBLZ), or send us an email at info@InsideUAB.com (info@insideuab.com).

Good Games UAB

The Good Games UAB (gg.UAB) program aims to create an environment that fosters a community of students with diverse backgrounds who actively engage in numerous eSports initiatives and activities throughout the school year. Our organization provides extensive programming, hands-on experience and mentoring to promote eSports culture within the community while increasing career awareness for students looking to jump-start their journey into the industry by connecting them with companies in the Greater Birmingham area. All students enrolled at UAB are eligible for membership.

For more information, contact the Office of Student Involvement and Leadership, getinvolved@uab.edu, (205) 934-8020, Hill Student Center 230, www.uab.edu/studentaffairs.

Honor Societies

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For more information, contact the Office of Student Involvement and Leadership, getinvolved@uab.edu, (205) 934-8020, Hill Student Center 230, www.uab.edu/studentaffairs.

Leadership and Service Council (LSC)

The LSC consists of 12 selected student leaders and is responsible for coordinating various events and programs related to serving others and creating awareness for current social issues. Advised by the Office of Student Involvement & Leadership, LSC has five committees, and these student leaders are responsible for all aspects of events sponsored by the LSC, including event logistics, marketing, and volunteers. LSC also assists with the planning and execution of other events sponsored by Civic Engagement, including Civic Engagement Fairs, Blazers on Break, and Summer Service Weekends. Selection for this council takes place in the spring semester.

For more information, contact the Office of Student Involvement and Leadership, getinvolved@uab.edu, (205) 934-8020, Hill Student Center 230, or www.uab.edu/studentaffairs.

Miss UAB

The spotlight shines on students both on stage and behind the scenes in the Miss UAB Scholarship Pageant, an official preliminary to the Miss Alabama and Miss America pageants. Held each fall, the pageant showcases each contestant’s talent and achievement and provides scholarships to help them pursue educational goals. Get involved by joining the pageant’s planning committees which promote the contestants, produce the show, recruit judges, or take the stage as a contestant!

For more information, contact the Office of Student Involvement and Leadership, getinvolved@uab.edu, (205) 934-8020, Hill Student Center 230, or www.uab.edu/studentaffairs.

Music Ensembles

Students of all majors are invited to participate in instrumental or vocal music ensembles offered through the Department of Music. Each group performs on campus several times each year; some also perform for selected off-campus events. Some prior experience and brief auditions are required. Several scholarships are available each year for students who perform with these groups. For more information, contact the Department of Music, (205) 934-7376.
Vocal Groups
Chamber Singers
This choral ensemble performs a variety of music representing different periods and styles. The group is open to students of all majors. A short audition is required. For more information, please contact Dr. Brian Kittle at (205) 975-2599 or briank@uab.edu.

Concert Choir
This auditioned choral ensemble performs music representing a variety of periods and styles. Some music-reading ability is needed. The group is open to students of all majors. A short audition is required. For more information, please contact Dr. Brian Kittle at (205) 975-2599 or briank@uab.edu.

Gospel Choir
This ensemble primarily performs choral literature from the major eras of American Gospel Music. It is open to students of all majors. Students with significant skill in playing gospel, jazz and/or pop keyboard, rhythm guitar, bass guitar, saxophone, and drums are also encouraged to participate in the Gospel Choir. For more information, please contact Mr. Kevin Turner at (205) 934-6155 or kturner@uab.edu.

Opera Workshop
This ensemble performs opera scenes and musical theater excerpts, as well as fully staged, complete operas. It is open to students of all majors. A short audition is required. For more information, please contact Dr. Kristine Hurst-Wajszczuk at (205) 934-8906 or mailto:khw@uab.edu.

Bands
Blazer Band
As part of the university band program, the Blazer Band provides support for UAB Blazer basketball. It performs at all home and selected away games and for post-season events such as the annual Conference USA tournament. For further information, please contact the band office at (205) 975-BAND (975-2263).

Jazz Ensemble and Jazz Combos
Instrumentalists can further their musical knowledge and creative skills by performing classic and contemporary jazz, swing, and rhythm and blues. For further information, please contact Dr. Steve Roberts at (205) 934-6154 or jazztpt@uab.edu.

UAB Marching Blazers
The UAB Marching Blazers is part of the university band program, and produces high-quality experiences for students and fantastic entertainment for diverse audiences. The Marching Blazers go beyond the traditional role of collegiate marching bands by performing for professional sporting events; local, regional, and national marching band competitions and parades; and international travel and competitions. Scholarships are available. For further information, contact the band office at (205) 975-BAND (975-2263).

Wind Symphony and Symphony Band
As part of the university band program, the Wind Symphony and Symphony Band perform the finest concert band literature in campus concerts, selected special performances, and an annual spring tour. Band placement is contingent upon a brief audition.

Scholarships are available for students who participate in the Wind Symphony or Symphony Band and the Marching Blazer. For further information, please contact the band office at (205) 975-BAND (975-2263).

Student Media
Kaleidoscope, UAB’s student newspaper, was here before there was a UAB. Students have been gathering, editing, and distributing the news about the UAB community since 1967.

Throughout the years, “Kscope,” as it is known on campus, has played a vital role in helping keep students informed as well as providing a public forum for the discussion of timely issues of interest to our community.

As times have changed, so has UAB’s Student Media -- trading in typewriters for computers, adding more color to its print edition, and aggressively converging what had once been a print-only medium into a contemporary operation that delivers content not only in print but daily on the web and through mobile devices.

And, UAB’s Student Media has expanded along the way with these innovative media:

- Interactive Student Media, the web services group that powers Kscope online.
- Streaming internet radio (BlazeRadio (http://www.uab.edu/studentmedia))
- Literary and visual arts magazine (Aura Literary Arts Review)
- Television web channel (UABTV (http://www.uab.edu/studentmedia))

Regardless of the medium, however, at the heart of these operations are students who gain real-world experience and training that has equipped them for entry into the professional world. Over the years, teams of students have won numerous regional and national awards for journalistic excellence.

Student Media alumni have gone on to work for a variety of media, ranging from community journalism to major metropolitan operations across the U.S. with most crediting their experiences with student media at UAB as essential to their careers.

Today, students produce content for all facets of these operations, including wrangling multimedia and mobile technologies to adapt the medium for display on smartphones and tablets. These innovations are produced by students themselves and are among some of the most cutting-edge concepts in collegiate journalism in the nation.

Student Media is always looking for those who want to join a team dedicated to finding the next great idea in serving our community. Perhaps that’s you. Contact us today.

For more information, contact:

Student Media Office
Hill Student Center, 1400 University Blvd., Suite 130 • Telephone (205) 934-3354 • Find us on B-Sync or Email: info@insideuab.com

Student Organizations
UAB recognizes over 150 student-led organizations concerned with the academic, social, and personal development of students. Organizations include groups with interests in religion, music, athletics, and cultural
Student Advocacy, Rights and Conduct

The Office of Student Advocacy, Rights and Conduct is committed to nurturing, protecting, and providing for its students. If you or someone you know is the victim of a physical or sexual assault or domestic violence, please remember; you are not alone. It is not your fault. UAB departments such as Counseling Services, Student Health and Wellness, and Student Advocacy, Rights and Conduct are here to offer assistance. Within Student Advocacy, Rights and Conduct, we have Case Managers to work closely and confidentially with undergraduate and graduate students. We will help you report a crime, receive medical attention, or get you connected to the right resources. If you or someone you know is struggling with depression, thoughts of suicide, or alcohol or drug abuse, we have assembled a list of medical professionals, counselors and support agencies, both on and off campus, to aid in your success at UAB. Visit the Student Advocacy, Rights and Conduct web site at: uab.edu/sarc.

You're not alone; we are here to help

Student Advocacy, Rights and Conduct is committed to nurturing, protecting, and providing for its students. If you or someone you know is the victim of a physical or sexual assault or domestic violence, please remember; you are not alone. It is not your fault. UAB departments such as Counseling Services, Student Health and Wellness, and Student Advocacy, Rights and Conduct are here to offer assistance. Within Student Advocacy, Rights and Conduct, we have Case Managers to work closely and confidentially with undergraduate and graduate students. We will help you report a crime, receive medical attention, or get you connected to the right resources. If you or someone you know is struggling with depression, thoughts of suicide, or alcohol or drug abuse, we have assembled a list of medical professionals, counselors and support agencies, both on and off campus, to aid in your success at UAB. Visit the Student Advocacy, Rights and Conduct web site at: uab.edu/sarc.

Title IX

The University of Alabama at Birmingham Department of Student Experience oversees the University’s compliance with Title IX of the Education Amendments of 1972. The Office works with students, University administration, departments, faculty, staff, campus police, and other support services to ensure that University policies and programs foster a campus community free of illegal gender discrimination and from all forms of violence, including sexual misconduct, examples of which can include acts of sexual assault, domestic violence, dating violence, stalking, and gender based discrimination. Visit the Title IX Website at: uab.edu/titleix

UAB CARE Team

When you are concerned about a student, know that the CARE Team is here to help. The UAB CARE Team (Communicate, Assess, Refer, Educate) helps find solutions for students experiencing academic, social, and crisis situations, including mental health concerns. Members of the University community can report a concern for a student who might benefit from services. We review these reports to understand each student issue and the on and off campus resources that may guide them to success.

The CARE Team steps in to connect students with relevant campus resources and outside agencies. Most times, we may need to communicate with the reporting party to help accurately assess the needs of the student. The CARE Team will also reach out to the student to...
understand his/her situation and develop a plan of action leading towards his/her success.

Student Services & Facilities

This page contains a list of facilities and services available to UAB students. For further information on these and other facilities and activities, contact the Information Desk (https://www.uab.edu/studentaffairs/studentcenter), located at the Hill Student Center or refer to the UAB student handbook, Direction, at https://www.uab.edu/students/ and on BlazerNET (http://www.uab.edu/blazernet) on the Student Resources tab.

Academic Advising

Academic advising is designed to assist students in identifying and achieving their educational and career goals. Specific guidance is given in selecting majors and choosing courses to satisfy degree requirements. Each student is assigned an academic advisor based on their choice of school and major.

College of Arts & Sciences

Arts and Humanities

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<thead>
<tr>
<th>School/Area/Advisor</th>
<th>Telephone</th>
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<tbody>
<tr>
<td>Ms. Kassie Doggett (AAS, ART, EH, (205) 934-6135 CMST, THR/Musical Theatre, PHIL</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Mr. David Sellers (AAS, ART, EH, (205) 934-6135 CMST, MU/LART MU Interest, PHIL</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Ms. Brigette Weatherby (AAS, Art, (205) 934-6135 EH, CMST, MU/LART MU Interest, THR, PHIL</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Ms. Whitney Woodard (AAS, ART, EH, (205) 934-6135 CMST, THR/Musical Theatre, PHIL</td>
<td>(205) 934-6135</td>
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Social and Behavioral Sciences

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<th>School/Area/Advisor</th>
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<tbody>
<tr>
<td>Mr. Kip Hubbard ANTH, CJ, HY, PSC, SOC Last Names L-Z</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Mr. Andrew Meythaler (A-K)</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Mr. Adam Roderick (L-Z)</td>
<td>(205) 934-6135</td>
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Biology

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<tr>
<th>School/Area/Advisor</th>
<th>Telephone</th>
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<tbody>
<tr>
<td>Ms.Charity Costa-Reese (A-L) Freshman - Junior</td>
<td>(205) 975-4632</td>
</tr>
<tr>
<td>Mr. Ben Cooper (M-Z) Freshman - Junior</td>
<td>(205) 934-8321</td>
</tr>
<tr>
<td>Dr. Tyna Adams (Seniors and Post-Bac)</td>
<td>(205) 934-6025</td>
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Chemistry

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Mr. Jamie Grimes</td>
<td>(205) 934-7529</td>
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Computer and Information Sciences

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Mr. Kip Hubbard</td>
<td>(205) 934-2213</td>
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Foreign Languages

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<th>School/Area/Advisor</th>
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<tbody>
<tr>
<td>Ms. Brittany Saylor</td>
<td>(205) 934-6135</td>
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Health-Related Programs (pre-nursing interest)

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<tr>
<th>School/Area/Advisor</th>
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<tbody>
<tr>
<td>Ms. Tisha Morrisey</td>
<td>(205) 934-6135</td>
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<tr>
<td>Ms. Rachel Davis</td>
<td>(205) 934-6135</td>
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International Studies

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Ms. Deborah Littleton</td>
<td>(205) 934-6135</td>
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Liberal Arts/Health Related Programs

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<tr>
<th>School/Area/Advisor</th>
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<tbody>
<tr>
<td>Mr. Andrew Meythaler (A-K)</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Mr. Adam Roderick (L-Z)</td>
<td>(205) 934-6135</td>
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Mathematics

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<th>School/Area/Advisor</th>
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<tr>
<td>Dr. Jeanne Hutchison</td>
<td>(205) 934-2154</td>
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Natural Science

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<th>School/Area/Advisor</th>
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<tr>
<td>Dr. Tyna Adams</td>
<td>(205) 934-6025</td>
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Neuroscience

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Ms. Whitney Woodard</td>
<td>(205) 934-6135</td>
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Physics

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Mr. Gary Applewhite</td>
<td>(205) 934-6135</td>
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Pre-Health Majors: Pre-Medicine, Pre-Dentistry, and Pre-Optometry

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Ms. Delia Lewis (Juniors, Seniors, and Post-Baccalaureate)</td>
<td>(205) 934-6135</td>
</tr>
<tr>
<td>Dr. Cheryl Moser (Freshmen and Sophomores)</td>
<td>(205) 934-6135</td>
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Pre-Law

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<tr>
<th>School/Area/Advisor</th>
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<tr>
<td>Dr. Wendy Gunther-Canada (Department of Government)</td>
<td>(205) 934-8674</td>
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</table>
Psychology

School/Area/Advisor    Telephone  
Ms. Whitney Woodard (A - Z) (205) 934-6135  
Mr. Gary Applewhite (M - Z) (205) 934-6135

Social Work

School/Area/Advisor    Telephone  
Mr. Kip Hubbard (205) 934-6135

Individually Designed Majors/Minors

Students interested in an Individually Designed Major or Minor should contact their current Academic Advisor or Dr. Catherine Daniélou, Senior Associate Dean for Undergraduate Academic Affairs, danielou@uab.edu or (205) 934-5643.

Honors College

School/Area/Advisor    Telephone  
Personalized Pathway/GCL Honors - Amy Atkisson (205)-934-3871  
Personalized Pathway/GCL Honors - Mellissa Taylor (205) 934-1967  
Science & Technology Honors - Clay Walls (205)-996-5701  
University Honors - Rebecca Freeman (205)-934-3228

School of Business

Accounting

School/Area/Advisor    Telephone  
Ms. Jessica Smith (205) 934-8813

Finance and Information Systems

School/Area/Advisor    Telephone  
Ms. Laura Tull (205) 934-8813

Marketing and Economics

School/Area/Advisor    Telephone  
Ms. Brittany Quinn (205) 934-8813

Industrial Distribution

School/Area/Advisor    Telephone  
Ms. Kristen Craig (205) 975-5810

Management

School/Area/Advisor    Telephone  
Ms. Andrea Miller Pound (205) 934-8813

Undeclared Business and Business Minors

School/Area/Advisor    Telephone  
Dr. Jennifer Wycoff (205) 934-1651

School of Education

School/Area/Advisor    Telephone  
Mr. Michael Wilson (Early Childhood/Elementary Education) (205) 934-7530  
Ms. Rachel Daniel (Secondary/Community Health and Human Services) (205) 934-7530

School of Engineering

School/Area/Advisor    Telephone  
All PRE, Undeclared, first-term BME, and first-term transfer students (205) 934-8410  
Biomedical Engineering (205) 996-1065  
Civil Engineering (205) 934-8430  
Electrical Engineering (205) 934-8440  
Materials Engineering (205) 934-8450  
Mechanical Engineering (205) 934-8460

School of Health Professions

Health Care Management

School/Area/Advisor    Telephone  
Health Care Management / Ms. Susan Packa (205) 934-5173

Biomedical Sciences

School/Area/Advisor    Telephone  
Biomedical Sciences / Ms. Brooke Walker (205) 996-4942

School of Public Health

School/Area/Advisor    Telephone  
Nicole Gravitt 205-934-4993  
Michelle Henry 205-934-4993

ROTC

Army

School/Area/Advisor    Telephone  
LTC Arileyh Austin (205) 934-8746

TRIO Academic Services

School/Area/Advisor    Telephone  
Ms. Shawanda Robinson (205) 934-2729

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- Campus Recreation (p. 49)  
- Campus Restaurants (p. 49)  
- Hill Student Center (p. 49)  
- Libraries (p. 49)  
- Math Learning Lab (p. 49)
Birmingham Area Consortium for Higher Education (BACHE) Library Cooperation

The Birmingham Area Consortium for Higher Education (BACHE) consists of UAB, Birmingham-Southern College, Miles College, the University of Montevallo, and Samford University. Students, faculty, and staff at BACHE institutions may access the resources of all member libraries by simply presenting their valid ID cards. It is best for students to discuss research projects first with the reference staff at UAB's library before using other member libraries. The rules and regulations of the lending library are in effect.

http://www.uab.edu/bache/

Campus Recreation

The Campus Recreation Center (CRCT) offers students, faculty, staff, and alumni access to a state-of-the-art recreation facility. The UAB Campus Recreation Center offers premier programs, facilities, and services! You will find something for everyBODY – free weights, multipurpose courts, an aquatic center, group fitness studios, nutrition education, cardio-fitness areas, a climbing wall, and much more.

The 150,000 square foot facility covers three floors housing: four basketball/volleyball courts; five racquetball courts (one of which can be converted to squash and four for walleyball); four aerobics studios; one performance studio; 18,000 square feet of weight and cardio-fitness areas; a game room; Kid Zone; an aquatics center with both lap and leisure components; a multi-purpose court used for indoor soccer, floor hockey, indoor flag football and badminton; an indoor track; and a climbing wall.

Patrons can also take advantage of the wellness services here at the Campus Recreation Center, which offer personal fitness assessments, massage therapy, and personal training. In addition, we have a Campus Rec Pro Shop in house, so if you forget something we've got you covered and the PowerZone to keep you fueled before and after your workout. Lastly, we have a number of lockers available for rent in 12 month or 3 month contracts. Space is limited, so contact membership services at 205-996-5038 today if you are interested! If you prefer not to purchase a locker, we have several areas in the facility, including the locker rooms, with day use lockers available; just bring a lock, store your belongings while you workout with your own lock, and take it with you when you leave - Free of charge! The CRCT is located at 1501 University Boulevard next to the Campus Green.

Aquatics (http://www.uab.edu/campusrecreation/programs/aquatics-aq-class-description)

The Aquatic Center housed within the Campus Recreation Center provides a place for members to swim laps as well as meet their leisure aquatic needs by swimming laps, floating through the lazy river or taking a dip in the hot tub. In addition, the aquatics program offers swim classes, private lessons, life-guarding certifications WSI (Water Safety Instructor) classes, and pool parties for special events. For questions about pool party requests and/or other pool activities, please visit our website www.uab.edu/campusrecreation or email cfaus@uab.edu.

Fitness & Wellness Services (http://www.uab.edu/campusrecreation/fitnesshome)

The Fitness and Wellness programs offered at the UAB Campus Recreation Center range from traditional Ufit classes and Studio V performance classes to personal training packages and wellness massage services. For more information on all of our fitness and wellness services or to schedule an appointment today, please contact fitness@uab.edu.

Ufit & Instructional Group Fitness Classes

Ufit classes are FREE to anyone with an active CRCT membership. Feel free to drop in any time or day of the week to participate in the wide variety of classes available! Instructional classes are offered throughout the year and provide anyone pre-registered with a more advanced learning experience. If you are interested in participating in any one of the instructional classes please register at our Membership desk. All instructional classes are open for active members and non-members.

• We offer a wide variety of fitness classes, designed to fit your scheduling needs. From seasoned cyclers to those wanting to try yoga for the first time, Ufit has a class that will get you moving! Download the current schedule here (http://www.uab.edu/campusrecreation/programs/fitness/schedules/)

• New and challenging classes are continually being offered throughout the year! Look for classes like Cardio & Strength, Bootcamp, Women’s Strength Training, Group Cycling, Aqua Fit. Other classes include: Fit Barre, Step Jump & Pump, Yoga, Pilates, Hip Hop, Zumba, Bosu, Latin Dance, Bharatanatyam Dance and TRX Training.

Register online here (http://www.uab.edu/campusrecreation/membership/access-portal/)

Wellness Catering

Wellness Catering is a program designed to cater any recreation, health, and/or wellness topic to the UAB community. All programs are presented by a recreation professional and can be modified for your groups exact needs. Topics covered vary from fitness trends, healthy eating habits, to fitness and nutrition demonstrations. Departments have the opportunity to pick a topic to be presented at a staff meeting, lunch group, or any time of your choice!

One-on-One Health Coaching & Counseling

Looking for a bit of extra advice or simply just need an accountability partner to assist you with all your health, activity, and weight-loss goals? The UAB Campus Recreation Center and Wellness Catering is now offering individualized personal health coaching. Meet with our certified Health Coach and begin your lifestyle transformation today.

Complete Fitness Assessments

Fitness Assessments provide individuals with their baseline measurements of flexibility, endurance, blood pressure, muscular strength, body composition, and cardiovascular fitness. The results of these tests are reviewed by a certified Personal Trainer and are used to help personalize a tailored workout plan specifically for you. To schedule your Fitness Assessment please email the Graduate Assistant of Fitness & Wellness cricketes@uab.edu and complete the Health History Questionnaire (http://www.uab.edu/campusrecreation/images/Documents/FIT/health_history.pdf) as well as the Fitness Assessment
Tournaments will be free. All tournaments start at 6:30 pm with registration starting at 6 pm. View tournaments here (http://www.uab.edu/campusrecreation/programs/competitive-sports).

Competitive Sports (http://www.uab.edu/campusrecreation/programs/competitive-sports)

The Competitive Sports program offers activities such as Intramurals and Club Sports that involve individual and team competition.

Intramurals

All UAB students, staff, and faculty are eligible to participate in intramural sports. Faculty and Staff must adhere to the specific entrance policies if they are not campus recreation facility members. Individuals in any team league must have their campus card in possession to be eligible to participate. Every team league is offered in men’s, women’s and co-rec format. Each league will have a 4 week regular season followed by a single elimination playoff. For more information please visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports/schedules) or contact intramurals@uab.edu.

Want to sign up? (http://www.imleagues.com/School/Home.aspx?&Schld=927a5b3b6e944220acad259198fe8f2)

Individual Tournaments / Events

All single day tournaments are single or double elimination. Tournaments offered include: badminton, corn hole, billiards, table tennis, swim meet, track & field, triathlon, Texas Hold’em, and sand volleyball.

View tournaments here (http://www.uab.edu/campusrecreation/programs/competitive-sports).

*All tournaments start at 6:30 pm with registration starting at 6 pm.

*Tournaments will be free

Club Sports

A club sport is an organized group of individuals established to promote interest in a sport and develop skills of its members in that sport. A club sport may be organized for recreational, instructional, performance, or competitive purposes. For more information please visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports/clubs) or contact spettigr@uab.edu.

Community Leagues

Anyone 18 years of age or older is eligible to participate. All community leagues are open to both UAB affiliated and non-UAB affiliated persons. Current sports offered include: flag football, basketball, indoor soccer, and volleyball. For more information please visit our website (http://www.uab.edu/campusrecreation/programs/competitive-sports/community-leagues) or contact spettigr@uab.edu.

Adventure Recreation (http://www.uab.edu/campusrecreation/programs/adventure-rec-and-camps)

Adventure Recreation offers outdoor trips and clinics throughout the year including: kayaking, backpacking, camping, climbing, canoeing and whitewater rafting. Also offered are delay certification and lead climbing programs. Trips and clinics, such as the Wilderness First Responder training, are open to university students, faculty/staff, alumni, and the community. Contact outdoors@uab.edu for more information on trips, clinics, and rentals.

Climbing Wall

Located on the mezzanine level of the Campus Recreation Center, the 42’ tall by 36’ wide climbing wall offers 1,512 square feet of climbing. The wall’s climbing surface is constructed of reinforced polymer concrete panels and imprinted to match the look and feel of natural rock. Open to university students, faculty/staff, and alumni. The community may use the wall by private group rental.

Team Building

Campus recreation offers many opportunities for team building initiatives, catering toward campus groups, corporate outings, school groups and more! Our enthusiastic and skilled facilitators will guide your group through fun activities focused on enhancing or developing vital workplace and life skills such as teamwork, cooperation, communication, and trust. Our program can accommodate groups of any size. Initiatives work on developing or enhancing: communication, teamwork, trust, cooperation, team building, planning, and other common work place functions. Contact outdoors@uab.edu.

Rentals

The Outdoor Pursuits Rental Center offers outdoor equipment for various events and is open to university students, faculty/staff, alumni, and the community. Whether backpacking, camping, or canoeing, the rental center has multiple rental time spans on the equipment you might need like sleeping bags, tents, backpacks, and cooking sets.

Campus Restaurants

Dining on-campus gives you the advantage of never having to worry about keeping cash on hand and never losing your parking space. At UAB we have eleven restaurants on-campus. Just swipe your ONE Card and dine! For more information about Campus Restaurants, please stop by the UAB Campus Restaurants office located on the top floor of the...
For a map of dining locations and updated hours of operation visit:
www.uab.edu/dining/locations

Meal Plans
Your meal plan gives you the advantage of never having to worry about keeping cash on hand to eat on-campus. Just swipe your ONE Card and dine. For meal plan options and requirements visit www.uab.edu/dining/meal-plans.

Dining Dollars
Dining Dollars are funds that you receive from your campus dining fee. All full-time undergraduate students have Dining Dollars loaded onto their OneCard. Dining Dollars is also a declining balance account that can be used at all on-campus dining locations. Dining Dollars are not part of a student’s meal plan.

Hill Student Center
With over 162,000 square feet, the UAB Hill Student Center is the living room of the university. It’s a place where you can find friends, meals, books, and a variety of student services, meetings and activities. You can find building maps and hours online at uab.edu/studentcenter.

The Hill Student Center has a variety of dining options. In the food court you will find a Panera Bread, Mein Bowl Asian Market, and a Full Moon Bar-B-Que. On the second floor you will find a Starbucks.

The Hill Student Center also offers a variety of meeting rooms and event spaces. It houses eleven meeting rooms, all equipped with audio/visual equipment and can comfortably accommodate meetings as small as eight or as large as forty. The Hill Student Center also has a 6,722 square-foot multipurpose ballroom that is divisible into four different size configurations.

It is easy to reserve spaces in the Hill Student Center simply visit uab.edu/studentcenter to view availability and request space.

Libraries
UAB Libraries hold more than two million volumes and provide access to thousands of relevant digital resources for information, instruction, and research in support of UAB’s vast academic and medical enterprise. The UAB Libraries system comprises Mervyn H. Sterne Library (http://www.mhsl.uab.edu) as well as Lister Hill Library of the Health Sciences (http://www.uab.edu/lister), which includes Lister Hill Library at University Hospital (http://www.uab.edu/lhluh) and UAB Historical Collections (http://www.uab.edu/historical) Reynolds-Finley Historical Library (http://www.uab.edu/reynolds), UAB Archives (http://www.uab.edu/archives), and the Alabama Museum of the Health Sciences (http://www.uab.edu/amhs). The faculty and staff of UAB Libraries provide the resources and essential expertise to support excellence in education, research, patient care, and community outreach. Priorities for UAB Libraries include increased access to resources, seamless cloud-based single search capability, campus-wide digital asset management, and increased support for distance and international students and researchers.

Mervyn H. Sterne Library (http://www.mhsl.uab.edu)
The Mervyn H. Sterne Library houses a collection of more than one million items and numerous electronic resources that support teaching and research in the arts and humanities, business, education, engineering, natural sciences and mathematics, and social and behavioral sciences. The library is located at 917 13th Street South and online at www.mhsl.uab.edu. (http://www.mhsl.uab.edu) The website is the gateway to all library services and collections including the Undergraduate Research Toolkit, subject- and course-specific Library Guides, and a list of FAQs. Services include research assistance, citation consultations, workshops and faculty-requested classes, assistance with locating materials, and interlibrary loan.

Named in memory of the late Birmingham philanthropist and civic leader Mervyn H. Sterne shortly after it opened in 1973, the library has seminar rooms, study rooms, lockable study carrels, computers, printers, scanners, copiers, and seating for 1,350 users. The first floor of the library was renovated in 2010 to make it even more user-friendly and houses the University Writing Center and a Starbucks. Due to student requests, Sterne Library has extended hours, opening 24 hours a day for five days a week except during holidays and summer terms. For more information on resources and services, visit the Sterne Library website at www.mhsl.uab.edu, call Reference Services at (205) 934-6364 or User Services at (205) 934-4338, or request help by email, text, or chat at www.mhsl.uab.edu/2009/contact.

Lister Hill Library of the Health Sciences (http://www.uab.edu/lister)
The Lister Hill Library of the Health Sciences, the largest biomedical library in the state, provides services and resources for UAB students, research and teaching faculty, and clinicians in medicine, nursing, optometry, dentistry, public health, health professions, and joint health sciences. The library was established in 1945, and then dedicated in 1971 in honor of Senator Joseph Lister Hill, a champion for health care and library legislation.

Lister Hill Library, located at 1700 University Boulevard, provides collaborative and group study space on the first floor and quiet study space on the second floor. Lister Hill Library’s website at www.uab.edu/lister provides 24/7 access to databases, electronic journals, ebooks, LHL Guides, FAQs, and recorded classes and tutorials. Services include consultations for conducting searches, guidance for citing resources, assistance with locating materials, and interlibrary loan services. For more information on resources and services, visit the Lister Hill Library website at www.uab.edu/lister, call (205) 934-2230, or request help by email, text, or chat at www.uab.edu/lister/ask.

The Lister Hill Library at University Hospital, located in the West Pavilion, provides onsite support for education, research, and patient care. Access the resources and services for clinicians through the LHL@UH website at www.uab.edu/lhluh or call (205) 934-2275 for more information.

The UAB Historical Collections, located on the third floor of Lister Hill Library, includes the Reynolds-Finley Historical Library (http://www.uab.edu/reynolds), UAB Archives (http://www.uab.edu/archives), and the Alabama Museum of the Health Sciences (http://www.uab.edu/amhs). The Reynolds-Finley Historical Library contains rare books, pamphlets, and manuscripts in the history of medicine, science, and health-related fields. This collection dates from the mid-14th century to
the early 20th century and includes a core of world-renowned medical classics with important concentrations on medicine in the Civil War, the South, and early Americana. UAB Archives is the official repository for the permanent records of the University and for archival collections held by UAB. One collecting area for manuscripts is the history of the health sciences, but the repository preserves collections with a wide variety of topics. The Alabama Museum of the Health Sciences preserves over seven hundred years of medical history with instruments, specimens, equipment, and pharmacology used by health care professionals throughout the world, with a special emphasis on material used on and around the University of Alabama at Birmingham campuses. Please call (205) 934-4475 for more information on the Reynolds-Finley Historical Library (http://www.uab.edu/reynolds) or the Alabama Museum of the Health Sciences (http://www.uab.edu/amhs). Call (205) 934-1896 for more information on UAB Archives (http://www.uab.edu/archives).

Math Learning Lab
Located on the second floor of Heritage Hall, the Math Learning Lab offers free tutoring in basic and intermediate algebra, pre-calculus algebra and trigonometry, business calculus, finite mathematics, elementary statistics, and calculus I, II, and III. One-on-one tutoring and homework help are available with no appointment necessary.

Smolian International House
The Bertha and Joseph Smolian International House, 1600 10th Avenue South, offers services and activities for international students and scholars. Known as the I-House, it provides a focal point for programs and activities designed to foster a free exchange of information and international understanding. The facility includes meeting space for campus groups, as well as community groups having an international purpose. For additional information or a schedule of activities, call (205) 934-3328.

www.uab.edu/students/international

Student Housing and Residence Life
Student Housing facilities include a suite-style residence hall, a semi-suite style residence hall, and four apartment-style residence halls. Student Housing is centrally located on campus and is within walking distance of all classroom buildings, libraries, campus dining facilities, the Medical Center, and the Campus Recreation Center and other student recreation facilities.

Student Housing is limited to full-time undergraduate and graduate students who are admitted to UAB and who are in good standing. “Good Standing” means not on academic or disciplinary suspension. A full-time undergraduate student must be registered for at least 12 credit hours and a full-time graduate student must be registered for at least 9 credit hours throughout the entire academic year. The summer term is treated under a separate contract. Students will be required to satisfy these eligibility standards throughout the term of their Student Housing Contract and to inform Student Housing and Residence Life of any changes in his/her status, which may affect his/her eligibility.

Residence Life Coordinators and Resident Assistants (RAs) serve as live-in professional staff and student leaders within the residence halls. The Residence Life Program consists of educational, cultural, recreational, and social events based on the needs and interests of the residents. In addition to planning these programs, trained staff members are available to answer questions, make appropriate referrals, and assist residents with personal or academic problems.

Since housing at UAB is limited, students should apply as early as possible, particularly if on campus housing is desired for the fall semester. Submitting a Housing Application does not guarantee a space for fall. Every effort will be made to inform applicants of availability. Applications should be completed on-line. For first time applicants a $25 non-refundable application fee is due along with a $250 prepayment of the room fees for the fall term. Returning residents are also required to submit a $250 prepayment at the time of application. All Student Housing rooms are assigned on a first come, first served basis.

Any questions or concerns may be directed to studenthousing@uab.edu or by telephone at (205) 996-0400. You can also visit the Student Housing & Residence Life website for additional information and resources at uab.edu/housing.

The UAB Bookstore
The UAB Bookstore is located at 1400 University Boulevard inside the new Hill Student Center. The bookstore posts official lists of UAB courses and stocks the textbooks and all other items necessary for successful UAB coursework. Most textbooks can be purchased new or used. The option to rent textbooks is also available for most courses. The bookstore carries study aids, reference materials, school and office supplies; medical instruments, lab coats, and scrubs; and the largest assortment of UAB logo apparel and gifts available. Contact the UAB Bookstore at (205) 996-2665 or visit the store online at www.shopuab.com (http://www.shopuab.com).

University Writing Center
Located on the first floor of Mervyn Sterne Library, the University Writing Center (http://www.uab.edu/writingcenter) (UWC) is UAB students’ go-to place for writing assistance, whether the task at hand is a Freshman Composition paper, a lab report, or a graduate school application essay. In a friendly and professional one-on-one setting, UWC tutors teach students to use writing to discover, apply, and communicate knowledge in all disciplines. Students commonly visit to get help with understanding a writing assignment; brainstorming ideas; developing outlines and claims; understanding and applying instructor feedback; and revising and editing complete drafts. While UWC tutors do not edit for students, they can help students identify their common errors and develop stronger editing processes.

In addition to one-on-one sessions in the Sterne Library location, the UWC offers online consultations for students enrolled in online courses; Ask-a-Tutor, an email service for short writing questions; and regular workshops on topics of common interest. To make an appointment, visit the UWC’s website (http://www.uab.edu/writingcenter) and log onto the online scheduling system with your Blazer ID and password. Like the UWC’s Facebook (http://www.facebook.com/UABWritingCenter) page and follow the UWC’s Twitter (http://www.twitter.com/UABWritingCntr) page to stay in touch and find out about upcoming workshops.

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• Career & Professional Development (p. 53)
• Disability Support Services (p. 53)
• International Student and Scholar Services (p. 53)
• Multicultural Scholars Program (MSP)
• ONE Card (p. 53)
goals in mind. Some of the services we offer are:

- With job search strategies, we have services designed with our students' goals seriously. We know that no one is born knowing how to create a career plan, and we want to help you every step of the way.

- Whether you need career counseling to help you decide what careers are a good fit for you, resume writing assistance, mock interviews, or help with job search strategies, we have services designed with our students' goals in mind. Some of the services we offer are:

  - One-on-One Career Counseling
  - Resume Reviews
  - Mock Interviews
  - Career Workshops
  - Employer and Industry Panels
  - Job Fairs
  - Career Management Courses UNIV 200 and UNIV 300
  - Job and Internship Listings through DragonTrail Jobs

**One Stop**

**What if you could get answers to your questions about your student account, financial aid and registration all in one place?**

Stop running from office to office and make the One Stop your first and possibly your only stop! If we can't help you on the spot, we'll do the leg-work for you or connect you to the appropriate resource.

Contact us by email, phone, or in person.

One Stop Student Services, Room 103 of the Hill Student Center, 1400 University Blvd

onestop@uab.edu

(205) 934-4300, 855-UAB-1STP (822-1787)

8:00 am - 5:00 pm, Monday - Thursday

9:00 am - 5:00 pm, Friday

**Information Center**

Information regarding programs, services, and activities at UAB is available at the UAB Information Center. Referrals to the appropriate department, office, or person may be made for more specific information.

The Information Center is located just inside the 14th Street entrance of the Hill Student Center, 1400 University Blvd. For additional information, call (205) 934-8000, or see the Web page at www.uab.edu/students/services/item/1021-info-center

**Career & Professional Development**

UAB Career and Professional Development is here to help you plan for a fulfilling career throughout your time at UAB, and beyond. UAB students are making a substantial investment of time and money by pursuing higher education, and our office takes each student's career goals seriously. We know that no one is born knowing how to create a career plan, and we want to help you every step of the way.

Whether you need career counseling to help you decide what careers are a good fit for you, resume writing assistance, mock interviews, or help with job search strategies, we have services designed with our students' goals in mind. Some of the services we offer are:

- One-on-One Career Counseling
- Resume Reviews
- Mock Interviews
- Career Workshops
- Employer and Industry Panels
- Job Fairs
- Career Management Courses UNIV 200 and UNIV 300
- Job and Internship Listings through DragonTrail Jobs

To see our upcoming events or view job listings, log on to DragonTrail Jobs through BlazerNet or at www.uab.edu/dtj. You can also visit us online at www.uab.edu/cpd, call us at 205-934-4324 for an appointment, or visit us at our main office on the 3rd floor of the new Hill Student Center.

We look forward to helping you!

**Explore ~ Experience ~ Prepare ~ Succeed**

**Disability Support Services**

Disability Support Services (DSS), located in the Hill Student Center, serves as the central campus resource for students with disabilities. The goal of DSS is to provide a physically and educationally accessible university environment that ensures an individual is viewed on the basis of ability, not disability. DSS staff members work individually with students to determine appropriate accommodations. To be eligible for services, students need to complete an application, submit documentation of their disability and meet with our counseling staff.

For more information, contact Disability Support Services at (205) 934-4205 (voice) or 934-4248 (TTY) or http://www.uab.edu/students/services/disability-support-services E-mail contacts are welcome at dss@uab.edu.

**Physical Address**

Hill Student Center

1400 University Boulevard

**Mailing Address**

UAB One Stop

1400 University Blvd., Hill 103

Birmingham, AL 35294

**International Student and Scholar Services**

International Student and Scholar Services (ISSS) is committed to providing quality services and programs to retain and support the UAB international community.

ISSS advises foreign students and visiting international faculty and staff in matters of immigration and federal and state taxation, and provides orientation and support programs to facilitate the transition to the UAB and Birmingham community. ISSS also serves as a collaborative resource to facilitate, promote, and strengthen international understanding on campus and throughout the Birmingham community.

International Student and Services also operates the Smolian International House. For additional information, call (205) 934-3328 or visit our Web page at www.uab.edu/international.

**Multicultural Scholars Program (MSP)**

The Multicultural Scholars Program (MSP) provides special resources and services to better prepare students for options after graduation from UAB, including admission to graduate and first-professional schools or initial entrance into a competitive job market. This multi-faceted program focuses on academic excellence and social development. The program takes students from the freshman year of college to graduation and beyond, which exemplifies the program's motto "each one, reach one.” All programs and services are designed to help students ease their transition to college, maximize their college experience, achieve their goals, and prepare for the next phase of their lives. For more information,
contact Student Multicultural and Diversity Programs in the Campus Recreation Center room 190, Telephone (205) 934-8225, electronic mail jonescl@uab.edu or read about our programs and services on the Student Multicultural and Diversity Programs Website, www.uab.edu/diversity.

ONE Card

The UAB ONE Card serves as the official student ID and offers access to a variety of services and resources on and around campus. Students use their ONE Card to enter residence halls and the Campus Recreation Center, attend UAB athletic and cultural events and check out materials from UAB libraries. With their ONE Card, students can enjoy discounts on tickets to a wide variety of on and off-campus events through the UAB Ticket Office. The ONE Card also functions as a debit card, allowing students a convenient and secure way to pay for goods and services at a variety of on campus and local area merchant locations.

General information about the UAB ONE Card, including a list of carding locations, is available at www.uab.edu/onecard. Note: A photo ID is required to have your initial ONE Card made. Questions about ONE Card services can be directed to onestop@uab.edu or (205) 934-4300.

Parking

All students who desire to park in UAB student parking facilities must purchase a permit from Parking and Transportation Services. Permits can be purchased by the term or for the full academic year. Fees vary according to lot. Contact Parking and Transportation Services at (205) 934-3513, for details, or visit online at www.uab.edu/parking/.

Both the university and the City of Birmingham issue citations in student lots to vehicles illegally parked or not displaying a proper permit. Students are responsible for paying all fines and fees imposed. Any delinquent ticket payments may be added to the student’s account in the Student Accounting Office. If a student accumulates three or more delinquent tickets and/or accumulates more than $45.00 in citations, the student’s vehicle may be immobilized or impounded at his or her expense.

Handicapped spaces are conveniently located throughout campus. A valid handicap permit must be displayed to park in a handicapped space in addition to the applicable parking permit. All state issued handicap parking permits MUST be registered with the UAB Parking Office in order to avoid a citation and park in a restricted UAB lot or deck.

For additional information and a campus parking map, contact:

**UAB Parking and Transportation Services**

608 Eighth Street South • Telephone (205) 934-3513 • E-mail: uabparking@uab.edu • Website: www.uab.edu/parking/

**Blazer Express**

The UAB Blazer Express Transit System is a service that provides transportation throughout the University campus. With a valid UAB ID badge, students, employees, and authorized visitors can enjoy fare-free bus transportation along 6 designated routes. Buses are ADA-accessible and can seat up to 35 riders. Bus service is provided Monday – Friday from 5:30A – 12:00A. Safety escort service is available through Blazer Express seven days a week from 9:00PM – 5:30 AM by calling (205) 934-8772.

**Motorist Assistance Roadside Service (MARS)**

Motorist Assistance Roadside Service (MARS) is a free service available to all visitors, students, and employees parking on campus who need help with a dead battery, flat tire, keys locked in a car, or empty gas tank. The service is available weekdays 7:30 AM - 10:00 PM, except University holidays. For assistance, call (205) 975-6277.

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**Placement Test**

The UAB Testing Office provides individual placement testing. Group testing is also available at times and locations listed each term in the UAB Class Schedule. For further information, contact the Testing Office, 936 Building, 936 19th Street South (205) 934-3704.

http://www.uab.edu/testing/

**Student Health & Wellness Center**

The Student Health & Wellness Center (SHWC) provides a comprehensive and integrated program of services to meet the medical, counseling and wellness needs of UAB’s undergraduate, graduate and professional students. Creating a healthy campus and promoting student wellness are essential to supporting student learning and success. The SHWC is staffed by a group of committed medical providers, counselors, nurses, clinicians, wellness specialists, and support staff who embrace the opportunity to meet your wellness, medical and counseling needs. Those services and resources are available in the new state-of-the-art Student Health & Wellness Center located at 1714 9th Ave. South (LRC building), Birmingham, AL 35294-1270.

Blazer Express has convenient drop-off and pick-up locations near the Student Health & Wellness Center. Patient and client parking is available at the South entrance to the building.

**Health Services**

The SHWC Health Services offer comprehensive primary care services including acute and chronic care, women’s health, a Registered Dietitian, mental health evaluation and treatment, immunizations, allergy immunotherapy, and treatment of minor emergencies. A Sports Medicine and Sexual Health Clinic are also available, as well as a Certified Athletic Trainer located in the UAB Recreational Center. On-site lab and x-ray services are available. After-hour’s consultation is provided through provider on call coverage, 24 hours a day/7 days a week/365 days a year. To ensure convenience and access, the Health Services operates under an open-access appointment scheduling system. Go to www.uab.edu/studenthealth for more information or to schedule an appointment through our patient portal. You may also call (205) 934-3581 to schedule an appointment or for general information call (205) 934-3580. All currently enrolled UAB undergraduate and graduate students have access to medical office visits, evaluation and development of a treatment plan at no additional cost beyond the payment of regular UAB tuition, regardless of insurance coverage. Diagnostic testing (lab and x-ray) is available on a fee-for-service...
basis and can be billed to the student’s insurance or, for those without insurance, directly to the student. A more complete listing of no-cost services and those services available, but at additional cost, can be accessed at http://www.uab.edu/studenthealth/student-health-coverage

Counseling Services

Counseling Services assists in developing students’ potential in physical, academic, spiritual, psychosocial, emotional, and vocational areas. Common presenting concerns include depression, anxiety, grief, relationship concerns, stress management, eating disorders, alcohol or substance abuse concerns, identity, conflict, gender transition and trauma. In addition to individual and couples counseling, services include wellness programs, group opportunities, and educational resources. Confidential counseling services are available to all currently enrolled UAB students at no cost. For more information or to schedule an appointment call (205) 934-5816.

Student Insurance Coverage (Mandatory and Optional)

In addition to services provided at the SHWC, select academic programs have a mandatory requirement to have major medical health insurance to ensure coverage for hospital, emergency room, specialty physician care and diagnostic testing. For more information on the mandatory insurance coverage requirement go the SHWC website at www.uab.edu/studenthealth/insurance-and-waivers/mandatory-insurance-waivers.

Viva Health offers an optional Student Health Insurance Plan for full-time registered undergraduate students taking a minimum of 9 credit hours and non-health related graduate students taking a minimum of 5 credit hours. The plan may be extended to cover the student’s spouse and dependents for an additional premium. Please visit www.vivaemployer.com (http://www.vivaemployer.com) for more information.

To learn more about services available through the Student Health and Wellness Center, please visit www.uab.edu/studenthealth or contact us at one of the following phone numbers for assistance.

Appointments:

Health Services (205) 934-3581 or schedule an appointment through the patient portal at www.uab.edu/studenthealth

Counseling Services (205) 934-5816

Office Hours

Day | Hours
---|---
Monday - Friday | 8:00 a.m. - 12:00 p.m. and 1:00 - 5:00 p.m.

The Student Health & Wellness Center is closed daily from 12 pm to 1 pm for lunch.

TRIO Academic Services

Fully funded by the U.S. Department of Education, TRIO Academic Services (Student Support Services) offers assistance to UAB’s degree-seeking undergraduate students who are either first generation college students (neither parent has a bachelor’s degree), are low-income, or have a disability. The program seeks to increase eligible students’ chances of graduating from UAB in four years. Students participate in the program from their entrance to UAB as freshmen or sophomores until graduation.

Intensive services are provided during the freshman and sophomore years; fewer services are provided during the junior and senior years. Services offered include free tutoring from freshman courses through senior courses, workshops to improve study skills, computerized basic skills assistance, computer training and usage, counseling and referral, graduate and professional school admission assistance, and educational and cultural activities. Students also receive a UAB-funded incentive stipend that increases yearly. Student who enter the TRIO program as freshmen, remain in good standing, and graduate in four years, will be eligible for the largest amount of money. Students are required to be full time and complete a minimum of 27 semester hours with at least a 2.0 grade point average each year. Required developmental courses are counted in these 27 semester hours. Students must maintain eligibility for financial aid if needed and participate fully in needed program services.

Priority acceptance is given to conditionally admitted freshmen who are attending UAB for the first time during fall semester. Limited space is available for freshmen and sophomores who are already attending UAB. New Participant Applications are available from April 1st to August 25th of each year. An application can be downloaded by clicking on the link below (this link will only be active from April 1st to August 25th) or can be picked up from our office during this time period. Applications are also emailed to newly admitted students accepted to UAB between April 1st and July 1st. The application deadline is August 25th.

Download Trio Academic Services Application

TRIO STEM-H

THE TRIO STEM-H (SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS, AND HEALTH SCIENCES) PROGRAM @ UAB IS AN EDUCATIONAL OPPORTUNITY THAT IS FEDERALLY FUNDED BY THE U. S. DEPARTMENT OF EDUCATION. THE MISSION OF TRIO STEM--H IS TO PROVIDE ACADEMIC AND PERSONAL SUPPORT TO HELP PARTICIPANTS BE SUCCESSFUL AS THEY PURSUE THEIR EDUCATIONAL GOALS AT UAB.

What are the benefits of being in the TRIO STEM-H Program?

- Individualized Guidance: One-on-one assistance to help students make a smooth transition to college, develop goals and create a graduation plan.
- Academic Support: Weekly tutoring sessions and workshops.
- Workshops: Sessions on time management, learning styles, résumé writing etc.
- Financial Advising: Assistance in applying for financial aid (FAFSA), scholarship searches, and financial counseling including help in creating a budget, managing credit, debt and personal finances.
- Career and Academic Guidance: Success Coaching and assistance with academics, including career and educational planning, mentoring, graduate school tours, and career development.
• Resources: Access to textbooks, calculators, reference materials, computers, FREE printing, graduate school prep tests and quiet study space.

• Money: STEM-H Grant-Aid and UAB Stipend.

• Cultural Events: Free cultural events and trips that will broaden horizons and enrich life experiences. Also STEM-H provides opportunities to study abroad.

• Campus Connections: A place to feel connected with others and UAB.

Who Can Participate in TRIO STEM-H?
All classifications selected have an academic need and:

• are first-generation college students (neither parent completed a bachelor's degree),

• have a documented physical, psychological or learning disability (that may affect their role as a college student), and/or

• have a limited family income (determined by taxable income level and family size)

How do I find out more information? Contact us at benjamin@uab.edu or visit us in the Hill Student Center, Suite 315.

Director: Brian E. Johnson, Ph.D.
Coordinator: Megan K. Talpash
Contact: www.uab.edu/educationabroad | 205-975-6611

Mission
The mission of UAB Education Abroad (UABEA) is to administer and establish high-quality education abroad opportunities in order to prepare UAB students for success in the globalized world.

Description
Pursuant to our mission, UABEA engages in the activities described below.

Study Abroad: Take courses for which academic credit is received and transferred to UAB on a UABEA-supported study abroad programs. This includes academic credit for student exchanges, faculty-led programs, and non-UAB programs that feature traditional classes, research, service learning, internships, volunteerism, shadowing, clinical rotation, and observations.

Student Organizations Abroad: Travel abroad as part of a UAB student organization; including Outreach Abroad, Outdoor Pursuits, artistic performances, athletic activities, or other student organization travel. UABEA can help students register travel with the university, obtain the necessary education abroad insurance, and prepare for the trip.

Student Conference Travel Abroad: Present at or attend a conference that takes place abroad as a UAB representative. UABEA office can help students register travel with the university, obtain the necessary education abroad insurance, and prepare for the trip.

Passport Acceptance Facility: Apply for a passport conveniently on campus. UABEA is an official U.S. Department of State Passport Acceptance Facility. UABEA provides assistance in applying for first-time as well as renewal passports. Passport services at UABEA are available to anyone. You do not have to be a UAB student or employee to apply for a passport at UABEA.

Destinations
Programs are available in over 45 different countries.

Dates
Programs are available for fall semester, spring semester, academic year, calendar year, and summer. Short-term programs are also available for select programs.

Languages
Programs are available in English, all of the foreign languages taught at UAB, and select languages not taught at UAB.

Eligibility
To be eligible to apply for education abroad, a student must:

1. be an enrolled UAB student;
2. be 19 years of age or older (or have parental permission);
3. have at least 30 semester hour credits completed (with 15 semester hour credits at UAB) before travel begins; and
4. be in good academic, disciplinary, and financial standing.

Programs have additional eligibility requirements, such as GPA minima, listed on the individual program webpages.

Students may petition to the Director of Education Abroad for a possible exception to the eligibility criteria.

Course Articulation
Students need to consult with UABEA before studying abroad to initiate course articulation, the process by which UAB course equivalency is determined for each course to be taken while studying abroad. Course articulation involves the student, UABEA, the host study abroad university, and UAB department chairs and advisors all working together and commonly takes approximately one month to complete.

It is highly recommended that the students contact UABEA to begin the course articulation process at least one month before the application deadline for the selected program. Students who don't begin the articulation process early enough prior to studying abroad, may not know how, or if, their courses abroad will count toward completion of a UAB degree.

Grade Posting
All grades earned while abroad will be posted to the student's UAB transcript and included in GPA calculations. Letter grades are used rather than pass/fail marks. In all cases, students must participate fully in all course activities and meet all stated course requirements. Auditing of any course abroad is not permitted. The process of grade posting varies depending on the program type.

UAB Student Exchanges (http://educationabroad.uab.edu/?Program_Type_ID=1&Program_Name=Exchange&pt=%7F&pi=%7F&pc=%7F&pr=%7F&FuseAction=Programs.SearchResults&SimpleSearch=1) are programs for which UABEA has established an exchange agreement with a university abroad. Students earn direct UAB course credit.
Students on exchanges are usually mainstreamed into regular classes with the student body at their university abroad. Courses taken on student exchanges will begin with IN ("INTERNaTional" indicating that the course took place at an international UAB student exchange location) and a two-letter subject code such as ME (Mechanical Engineering), GN (German), SP (Spanish), etc. to indicate the subject that was studied. Additionally, each of the courses is numbered 100, 200, 300, 400, or 500. All courses are variable in the number of credit hours (0-15) students can receive based upon their enrollment at the host partner university. INxx courses are repeatable. INxx courses are:

**Subject** | **Description**
---|---
INAB | Study Abroad Arabic
INAH | Study Abroad Art History
INAN | Study Abroad Anthropology
INAR | Study Abroad Art Studio
INAT | Study Abroad Astronomy
INBE | Study Abroad Biomedical Engineering
INBU | Study Abroad Business
INBY | Study Abroad Biology
INCH | Study Abroad Chinese
INCM | Study Abroad Communication Studies
INCS | Study Abroad Computer & Information Science
INCY | Study Abroad Chemistry
INDC | Study Abroad Digital Community
INEC | Study Abroad Economics
INED | Study Abroad Education
INEE | Study Abroad Electrical Engineering
INEH | Study Abroad English
INES | Study Abroad Earth Science
INEV | Study Abroad Environmental Science
INFN | Study Abroad Finance
INFR | Study Abroad French
INGN | Study Abroad German
INHY | Study Abroad History
INIS | Study Abroad International Studies
INIT | Study Abroad Italian
INJP | Study Abroad Japanese
INJS | Study Abroad Justice Sciences
INMA | Study Abroad Mathematics
INME | Study Abroad Mechanical Engineering
INMG | Study Abroad Management
INMK | Study Abroad Marketing
INMU | Study Abroad Music
INPC | Study Abroad Physics
INPE | Study Abroad Physical Education
INPH | Study Abroad Philosophy
INPS | Study Abroad Political Science
INPY | Study Abroad Psychology
INSC | Study Abroad Sociology

UAB Faculty-Led Programs are UAB classes that are developed and taught by UAB professors and have a field trip that takes place away from campus. The field trips are typically approximately 2 weeks in duration and the entire class, professor and students, travels together. Students earn direct UAB course credit. Some faculty leaders choose to have their students additionally earn transfer credit. For UAB Faculty-Led Programs, the instructor will assign the final grade as is normally done for any UAB class taught on campus. See the Grading Policies and Practices (p. 89) section of the UAB Catalog of Undergraduate Programs. UAB Faculty-Led Programs are designated with SA following the course title.

Non-UAB Programs are organized by a third-party education abroad provider in cooperation with a foreign university. Students receive a transcript from the foreign university or U.S. university of record and have transfer credit appear on their UAB transcript. Supported non-UAB programs are those appearing in the program list at the UABEA website. Courses taken on Non-UAB Programs will begin with INTL ("INTERNaTional" indicating that the course took place at an international non-UAB education abroad program location) and a two-letter subject code such as ME (Mechanical Engineering), GN (German), SP (Spanish), etc. to indicate the subject that was studied. Additionally, each of the courses is numbered 100 to 699. All courses are variable in the number of credit hours (0-15) students can receive based upon their enrollment at the host university.

UAB students wishing to participate in the Washington Center internship program, a Non-UAB Program, must receive written permission from their academic department at UAB to enroll in the UAB internship course offered by their department prior to applying to the Washington Center. After permission is granted by the student’s academic department at UAB, but before the start of the internship, the student will enroll in the UAB internship course offered by the permission-granting department at UAB and will be assigned a UAB faculty member who will act as the instructor of record. The instructor will assign a final grade as is normally done for the internship course in that UAB department. The Washington Center also offers courses and seminars, which will not count toward a UAB degree. These other courses and seminars are for enrichment purposes only.

**Changes of Grades**

Requests for grade changes to UABEA must be accompanied by official documentation sent directly from the host university.

**UAB Testing Office**

The UAB Testing Office provides testing services for UAB students, prospective students, and the community at large. The following tests and/or services are available:

- Admissions examinations for undergraduate and graduate programs
- American College Testing Program (ACT)
- Scholastic Aptitude Test (SAT)
- Miller Analogies Test (MAT) (acceptable to some graduate programs)
- College Level Examination Program (CLEP)—General and Subject Examinations
- Correspondence examination monitoring
• Professional licensing/certification/registration examinations

For further information on any of the above, contact the UAB Testing Office, 936 Building, 936 19th Street South, Telephone (205) 934-3704.

UAB Ticket Office

The UAB Ticket Office is an excellent source for acquiring the best seats to campus events, including performances at the Alys Stephens Center, and UAB Blazers Football and Basketball games. It also serves as the point-of-purchase for events sponsored by the Department of Student Life and other UAB organizations and off-campus agencies. In addition, the UAB Ticket Office offers discounted tickets for Carmike and Regal Cinemas, and to most major theme parks across the southeast, including Six Flags over Georgia, Alabama Splash Adventure and Dollywood. Discounts to the major aquariums in the area are also available including: Georgia Aquarium and Ripley’s Aquarium of the Smokies. First-class postage stamps are also available for purchase (UAB internal requisitions are accepted). For additional information, contact the UAB Ticket Office, located inside One Stop Student Services in Room 103 of the Hill Student Center, 1400 University Blvd., Birmingham, AL 35294-1150 Telephone: (205) 934-8000. Visit our website www.uab.edu/students/services/item/846-ticket-office

UAB Transfer Center

The UAB Transfer Center assists transfer students throughout the transfer process, from admissions to enrollment. Transfer Center staff evaluate coursework from other colleges and universities, but students can also use the Transfer Equivalency web resource at http://www.uab.edu/transfer-center/credit-equivalencies to determine how courses may transfer to UAB. For more information, email TransferCenter@uab.edu

Veterans Services

UAB Veterans Services (UAB-VS) assists veterans, reservists, guardsmen, and dependents of disabled or deceased veterans to access their educational benefits. UAB-VS serves as a liaison between the student and the local and federal agencies, including the State Department of Education, Department of Defense, and the Department of Veterans Affairs. The office staff assist students in applying for educational benefits, securing tutorial assistance and obtaining veterans work-study positions. For further information, contact UAB Veterans Services, Hill Student Center, Room 313, 1400 University Blvd., Telephone (205) 996-0404 or read about our programs and services at www.uab.edu/students/veterans

Financial Information

Tuition and Fees

Undergraduate Courses

The Detailed Tuition and Fee Schedule is available online http://www.uab.edu/students/paying-for-uab/detailed-tuition-and-fees

Estimated Tuition and Fees

To ascertain Tuition and Fees Fee Schedule please visit BlazerNET located online at www.uab.edu/blazernet

Deadlines

Student account payment deadlines are available on the Academic Calendar for each term. Fifty percent of your total student account must be paid by the first payment deadline and the entire account balance must be paid in full by the second payment deadline. Payment deadline dates are available on the Academic Calendar located online at http://www.uab.edu/academiccalendar.

Penalties

Students who fail to pay by the deadline are subject to substantial late fees. Students with delinquent accounts will not be allowed to register at UAB, and transcript requests will not be honored until all accounts are paid in full. The list of penalties is available online at http://www.uab.edu/whentopay/penalties.

How to Pay

Payments can be made via the web with a Blazer ID and Password at www.uab.edu/blazernet. The One Stop office also has a drop box where checks can be dropped off. Payments can also be made at Student Accounting Services. All fees are due by the published deadline, as indicated on the UAB Academic Calendar at http://www.uab.edu/academiccalendar. For tuition questions please call Student Accounting Services at (205) 934-3570.

Contact

Student Accounting Services
1700 University Blvd.
LHL Ground Floor G10
Birmingham, AL 35294
(205) 934-3570

Withdrawing from Courses

To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). The withdrawal period ends at approximately 75% of the academic term. Failure to attend class does not constitute a formal drop or withdrawal.

Withdrawal from courses can only be accomplished using official procedures. The official withdrawal must be completed online in BlazerNET. In extraordinary circumstances, if it is impossible for the student to withdraw online the student may mail a withdrawal letter to the Office of the Registrar. The official date of withdrawal will be the date the letter is received in this office. If the official date of withdrawal is after the last day to drop without paying, no tuition or fees will be refunded.

For financial aid purposes, the date of last class attendance will be the official date of withdrawal unless otherwise documented. Note that individual schools may have withdrawal rules in addition to the above.

Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student’s performance prior to withdrawal if the violation is substantiated.

Exceptions

All students are responsible for adhering to UAB’s academic policies, as published in the UAB Undergraduate Catalog. The Provost may make exceptions to policies. Exceptions will only be made in extraordinary circumstances. Only in cases of serious
Financial Aid to Students

Students should apply for financial aid if they need assistance in paying for the cost of education. Students applying for financial aid are considered for all programs for which they are eligible. Assistance generally takes the form of a combination of grant, loan, and employment. The amount of the award is based on the financial need of the student, taking into consideration the student’s total expenses and the family’s financial circumstances. A nationally recognized method of analysis approved by the federal government is used to determine the family’s ability to pay toward the cost of education.

Applying for Financial Aid

Students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) available online at http://www.fafsa.gov/ in early February. The earliest students can submit the FAFSA is January 1. Instructions and UAB forms are available online at https://www.uab.edu/students/paying-for-college. Since some of the aid programs have limited funding, students are encouraged to submit all required forms to the financial aid office by March 1 for financial aid for the following fall to ensure they receive aid from all programs for which they are eligible. In order to meet the tuition and fee deadlines, completed applications should be submitted no later than 45 days prior to the tuition due date. Students must reapply for financial aid each academic year.

Since procedures and rules are subject to change, students interested in applying for financial aid can receive further information online at www.uab.edufinancialaid.

Contact

Student Financial Aid
finaid@uab.edu
(205) 934-8223

Mailing address:
UAB Student Financial Aid
1720 2nd Avenue South
Birmingham, AL 35294

Financial Aid Programs

Federal Pell Grants

The federal government has allocated funds that currently provide grants up to $5,775 per year for eligible students. All undergraduate students needing financial assistance should apply.

Federal Supplemental Educational Opportunity Grants

Federal Supplemental Educational Opportunity Grants provide assistance for undergraduate students who demonstrate financial need. The maximum annual grant at UAB is $1,500.

Federal College Work-Study Program

Eligible undergraduate and graduate students may work part time and earn money to help pay their educational expenses while attending school. On-campus and off-campus jobs are available in areas related to the student’s educational interests.

Federal Direct Subsidized Loan

The Federal Direct Subsidized Loan is a need-based loan for undergraduate students with a fixed rate of 4.29%. Repayment begins six months after the student’s enrollment level drops below half time. Annual loan limits are $3,500 for freshmen, $4,500 for sophomores, $5,500 for juniors and seniors. The aggregate limits are $23,000 for dependent undergraduates and $57,500 for independent undergraduates.

Federal Direct Unsubsidized Loan

This is a non-need-based loan with a fixed rate of 4.29% for undergraduate students. Interest must be paid while the student is in school or must be capitalized as agreed upon by the borrower and lender. Repayment of the principal and any capitalized interest begins when the student’s enrollment status drops below half time. The maximum annual loan amount is the Federal Direct Stafford Loan annual limit minus the student’s amount of eligibility for a Federal Direct Stafford Loan.

Additional Federal Direct Unsubsidized Loan

Independent students or dependent students whose parents cannot borrow under the Federal Direct PLUS Program may borrow $4,000 as freshmen and sophomores, $5,000 as juniors and seniors.
Federal Direct Parent Loan for Undergraduate Students

This is a non-need-based loan with a fixed rate of 6.84%. Repayment of principal and interest begins immediately after the loan has been disbursed. Annual loan limits are the cost of attendance minus other aid.

Scholarships and Merit-Based Awards

Freshmen

To be eligible for a Freshman Academic Scholarship at UAB, Alabama residents must submit their undergraduate admission application and all required documentation (official high school transcript and official ACT and/or SAT scores) by December 1 of their senior year in high school (May 1 for out-of-state residents). Entering freshmen who have their admission documents postmarked by that date are automatically considered for ACT & GPA-based scholarships upon admission to UAB. The December test scores from their senior year will be the last scores considered for scholarship purposes. All scholarships are awarded on a first-come, first-served basis to qualified students. Scholarships from specific schools and departments may require additional applications, and their deadlines may be earlier than December 1. Students should check with the school in which their major is located for additional scholarship opportunities.

For Alabama Residents

Presidential Recognition Scholarship: Tuition and instruction-related fees for up to 15 credit hours per semester (fall and spring only) with an ACT of 30 or higher and a cumulative GPA of 3.5 or higher.

Collegiate Honors Scholarship: $5,500 with an ACT of 27-29 and a cumulative GPA of 3.5 or higher or an ACT of 30-36 and a cumulative GPA of 3.0-3.49.

UAB Breakthrough Scholarship: $3,000 with an ACT of 24-26 and a cumulative GPA of 3.5 or higher.

UAB Academic Achievement Scholarship: $2,000 with an ACT of 20-23 and a cumulative GPA of 3.5 or higher or an ACT of 24-29 and a cumulative GPA of 3.0-3.49.

For Out-of-State Residents

Blazer Elite Scholarship: $15,000 with an ACT of 30 or higher and a cumulative GPA of 3.5 or higher.

Blazer Gold Scholarship: $12,000 with an ACT of 26-29 and a cumulative GPA of 3.5 or higher.

Blazer Pride Scholarship: $10,000 with an ACT of 24-25 and a cumulative GPA of 3.5 or higher or an ACT of 26-36 and a cumulative GPA of 3.0-3.49.

Blazer Distinction Scholarship: $7,500 with an ACT of 20-23 and a cumulative GPA of 3.5 or higher or an ACT of 24-25 and a cumulative GPA of 3.0-3.49.

For National Merit Finalists and National Hispanic Recognition Program Scholars

Entering freshmen who are recognized as National Merit Finalists or National Hispanic Recognition Program Scholars are eligible to receive the UAB Presidential Scholarship for National Scholars, which provides tuition and instruction-related fees for up to 15 credit hours per semester (fall and spring only) for a total of 4 years (8 academic semesters). The award also provides a one-year on-campus housing allotment for the freshman year and a one-time technology stipend of $1,000 for the fall semester of the first year. In addition, students will receive a one-time $2,500 stipend to be used for experiential learning (study away, internships, co-ops, etc.) To obtain this scholarship, National Merit Finalists must name UAB as their first choice with the National Merit Scholarship Corporation (NMSC). National Hispanic Recognition Program Scholars must send a copy of their notification letter and certificate to scholarships@uab.edu by May 31 of their senior year in high school.

For International Students

UAB International Scholarship: This scholarship, valued at US $5,000 per year, is available to international students who are enrolling as first-year, full-time, degree-seeking students in an undergraduate program at UAB. To be considered, applicants must meet the following requirements: graduate from a secondary or high school outside of the United States, have a minimum grade point average of 3.0/4.0, have not enrolled in post-secondary work, anticipate holding an F-1 visa and currently live outside of the United States. Students must be accepted prior to May 1 for the August intake. All scholarships are awarded on a first-come, first-served basis as funds are available and are renewable for a total of 4 years (or 8 academic semesters). Students who are receiving governmental scholarships or other external support are not eligible to receive this award.

Other Scholarships for which Entering Freshmen May Apply

Students must first submit the General Application via the Blazer Scholarship Management and Resource Tool [BSMART] at www.uab.edu/bsmart to access additional scholarship applications.

AP Achievement and Recognition Awards for High School Seniors in the Birmingham City School System: Advanced Placement (AP) students who are currently enrolled in 1 of the 7 high schools in the Birmingham City School System (A.H. Parker, George Washington Carver, Huffman, P.D. Jackson-Olin, Ramsay, Wenonah, or Woodlawn) may receive 1 of 2 AP Awards. To be considered, students must be admitted to UAB by March 1 of their senior year in high school, complete the Free Application for Federal Student Aid (FAFSA) by March 1, complete a minimum of 2 AP courses, earn grades of B or higher in all AP coursework, and submit an AP Recognition Award Application at www.uab.edu/bsmart by March 1. (Students must first submit the General Application in BSMART in order to access the AP Recognition Award Application.) Up to 50 applicants may receive a one-time AP Recognition Award of $1,000. Up to 20 applicants who earn a score of 3 or higher on a minimum of 2 subsequent AP exams may have their AP Recognition Award upgraded to an AP Achievement Award, which guarantees that the cost of tuition and instruction-related fees for up to 15 credit hours per semester (fall and spring only) will be met with gift aid for a total of 4 years (8 academic semesters). The actual value of this award is dependent upon any grants and/or academic scholarships the student has been offered by UAB.

Birmingham City School Scholarship: This renewable award is for entering freshmen who graduate from a high school in the Birmingham City School System (A.H. Parker, George Washington Carver, Huffman, P.D. Jackson-Olin, Ramsay, Wenonah, or Woodlawn). This award will
annually increase in the following manner, providing a total of $13,500 in scholarship funding over a 4-year period: $3,000 for the first academic year; $3,000 for the second academic year; $3,500 for the third academic year; $4,000 for the fourth academic year. Qualified applicants must be admitted to UAB by May 1 of their senior year in high school and enroll during the fall semester immediately following their high school graduation. A separate scholarship application is not required.

**Birmingham News-Clarence B. Hanson, Jr. Scholarship:** This renewable award is for incoming freshmen who are residents of Blount, Jefferson, Shelby, St. Clair, or Walker counties in Alabama. Consideration is based on financial need, leadership and academic achievement. Students must be admitted to UAB by March 1 of their senior year in high school, have a cumulative GPA of 3.5 or higher, have a composite ACT score of 25 or higher, and submit the Free Application for Federal Student Aid (FAFSA) by March 1. To receive this award, students must be enrolled full-time and be U.S. citizens or permanent residents. Up to 2 awards will be given each year.

**Charles William Ireland Presidential Honors Scholarship:** This renewable award annually provides $12,000 toward tuition costs and a UAB summer research stipend of $1,000. It also provides an on-campus housing allotment of up to $5,900 each year (fall and spring only). To be considered, students must submit the Presidential and Endowed Scholarship Application by February 1. To access this online application, Alabama residents must be admitted to UAB for the upcoming summer or fall semester by December 1 of their senior year in high school with an ACT of 33-36 and a cumulative GPA of 3.5 or higher. Applicants should demonstrate outstanding character and integrity, potential for leadership, and the promise of significant achievement in his or her chosen field. Approximately ten applicants will be selected to participate in an on-campus interview in late February or early March, and one entering freshman will be selected as the Charles William Ireland Scholar. Students must be U.S. citizens or permanent residents to receive this award.

**Dottle Monro Presidential Minority Scholarship:** This renewable award is for incoming freshmen who are minority students. Consideration is based on financial need and academic achievement. Students must be admitted to UAB by March 1 of their senior year in high school, have a cumulative GPA of 3.0 or higher, and submit the Free Application for Federal Student Aid (FAFSA) by March 1. To receive this award, students must be enrolled full-time and be U.S. citizens or permanent residents.

**Energen First Birmingham City Scholarship:** This renewable award is for entering freshmen who are first generation college students and graduates of a high school in the Birmingham City School System (A.H. Parker, George Washington Carver, Huffman, P.D. Jackson-Olin, Ramsay, Wenonah, or Woodlawn). Consideration is based on academic promise and achievement. Students must be admitted to UAB by December 1 of their senior year in high school and be U.S. citizens or permanent residents to receive this award.

**Energen First Central Alabama Scholarship:** This renewable award is for entering freshmen who are first generation college students and graduates of a central Alabama high school (limited to the following counties: Autauga, Calhoun, Chambers, Chilton, Choctaw, Cleburne, Dallas, Elmore, Etowah, Green, Hale, Jefferson, Lee, Lowndes, Macon, Marengo, Montgomery, Perry, Pickens, Russell, Shelby, St. Clair, Sumter, Talladega, Tuscaloosa, Walker, and Winston). Consideration is based on academic promise and achievement. Students must be admitted to UAB by December 1 of their senior year in high school and be U.S. citizens or permanent residents to receive this award.

**George G. Seibels, Jr. Scholarship:** This one-year award is available to entering freshmen. To be considered, students must be admitted to an undergraduate program at UAB and complete the George G. Seibels, Jr. Scholarship Application at www.uab.edu/bsmart by March 1. (Students must first submit the General Application in BSMART in order to access the George G. Seibels, Jr. Scholarship Application.) Consideration is based on leadership potential, solid academic promise, high moral character, and an expressed interest in civic affairs, public service, or patriotic affairs. To receive this award, students must be U.S. citizens or permanent residents.

**I Am My Brother’s Keeper Scholarship:** UAB sponsors a scholarship opportunity for up to 2 entering freshmen who have participated in Birmingham’s I Am My Brother’s Keeper (IAMBK) Leadership Institute. (The institute is not directly affiliated with UAB.) To be considered, students must be admitted to UAB for the upcoming fall semester by March 1 of their senior year in high school, have an ACT composite score of 24 or higher, submit the Free Application for Federal Student Aid (FAFSA) by March 1, and provide documentation from the IAMBK Institute, confirming fulfillment of all the IAMBK requirements. Selected recipients will receive a 4-year award that guarantees the cost of tuition and instruction-related fees for up to 15 credit hours per semester (fall and spring only) will be met with gift aid.

**International Baccalaureate (IB) Scholarships:** Entering freshmen who are IB Diploma Candidates or IB Diploma Holders may be eligible to receive special scholarship funding. (For the purpose of this scholarship, “IB Diploma Candidates” are students who are fulfilling all coursework requirements for the IB Diploma, completing the Extended Essay, Creativity, Action and Service, and Theory of Knowledge components.) To be considered, students must be admitted to UAB for the summer or fall semester immediately following their high school graduation and submit an IB Diploma Candidate Award Application at www.uab.edu/bsmart by March 1. (Students must first submit the General Application in BSMART in order to access the IB Diploma Candidate Award Application.) Selected students will initially be awarded the Diploma Candidate amount ($1,000 per year). If they earn the IB Diploma, their awards will automatically be upgraded to the IB Diploma Holder Scholarship ($2,500 per year) after their official IB scores are received.

**Jane Knight Lowe Scholarship:** This renewable award is for entering freshmen who are graduates of a public or private high school in Madison County, Alabama. To be considered, students must be pursuing a degree in a health-related profession, demonstrate solid academic promise, and exhibit financial need, as determined by their FAFSA results. Students must be admitted to UAB by March 1 of their senior year in high school, have a cumulative GPA of 3.0 or higher, and submit the Free Application for Federal Student Aid (FAFSA) by March 1. To receive this award, students must be enrolled full-time and be U.S. citizens or permanent residents.

**Martha Corbin Scholarship:** This renewable scholarship is based on the academic achievements of entering freshmen who are residents of Alabama. To be considered, students must have a 3.0 overall grade point average and be admitted to an undergraduate program at UAB. Students must enroll full-time and be U.S. citizens or permanent residents to receive this award.

**McCallum Presidential Scholarship:** This renewable award annually provides $12,000 toward tuition costs and a UAB summer research
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stipend of $1,000. It also provides an on-campus housing allotment of up to $5,900 each year (fall and spring only). To be considered, students must submit the Presidential and Endowed Scholarship Application by February 1. To access this online application, Alabama residents must be admitted to UAB for the upcoming summer or fall semester by May 1 of their senior year in high school with an ACT of 33-36 and a cumulative GPA of 3.5 or higher. Applicants should demonstrate solid academic promise, diligence and the desire to be an effective citizen, as shown by participation and leadership in extracurricular and/or community activities. Approximately ten applicants will be selected to participate in an on-campus interview in late February or early March, and one entering freshman will be selected as the McCallum Presidential Scholar. Students must be U.S. citizens or permanent residents to receive this award.

Natalie T. and James A. Garland Educational Assistance Fund: This one-year award is for children of current, full-time, non-exempt employees of the UAB Women and Infants Center (including nursing and support staff, but excluding executive staff). To be considered, students must be admitted to, or enrolled in, an undergraduate program at UAB and have an overall grade point average of 3.0 or higher. First preference will be given to entering freshmen. Students must be eligible for and certified as a dependents for the UAB Educational Assistance Program in order to receive this award. Preference will be given to students who complete the Free Application for Federal Student Aid (FAFSA) by March 1 and demonstrate financial need, as determined by its results.

Regions Academic Scholarship: This renewable award annually provides $12,500 toward tuition costs and a UAB summer research stipend of $1,000. It also provides an on-campus housing allotment of up to $5,900 each year (fall and spring only). To be considered, students must submit the Presidential and Endowed Scholarship Application by February 1. To access this online application, Alabama residents must be admitted to UAB for the upcoming summer or fall semester by December 1 of their senior year in high school with an ACT of 33-36 and a cumulative GPA of 3.5 or higher. Selection is based on outstanding academic achievement and demonstrated leadership ability. Approximately ten applicants will be selected to participate in an on-campus interview in late February or early March, and one entering freshman will be selected as the Regions Academic Scholar. Students must be U.S. citizens or permanent residents to receive this award.

Roberts and Mildred Blount Presidential Endowed Scholarship: This four-year award, which annually provides $5,000 toward tuition costs, is for an outstanding entering freshman who is graduating from an accredited high school in Elmore County, Alabama. To be considered, students must be admitted to an undergraduate program at UAB, have a cumulative GPA of 3.0 or higher, and complete the General Scholarship Application by February 1. Selected applicants will be invited to interview for this award in late February or early March. Students must be enrolled full-time and be U.S. citizens or permanent residents to receive this award.

W. Ann Reynolds Scholarship: This award is for entering freshmen and current UAB students who are admitted to, or currently enrolled in, an undergraduate degree-seeking program at UAB. Applicants must be U.S. citizens or permanent residents to receive this award.

Transfer Students

To be eligible for Transfer Academic Scholarships, students must be admitted to UAB by March 1 for the upcoming summer or fall semester. New students transferring from 2-year community colleges are automatically considered for all university-wide academic scholarships upon admission to UAB. All scholarships are awarded on a funds-available basis and are renewable for a total of two years. To be considered, applicants must have a minimum GPA of 3.5 and have earned at least 45 semester hours of academic coursework (60 semester hours upon transfer to UAB). Students must also be enrolled full-time (12 or more semester hours) for at least 3 of the 4 semesters immediately preceding the March 1 scholarship deadline. If admitted to UAB during the semester immediately preceding the scholarship deadline, students must send an updated, official transcript that contains their fall grades by March 1. International students, part-time students, and students with previous coursework from another 4-year institution will not be considered.

Scholarships from specific schools and departments may require additional applications, and their deadlines may vary. Students should check with the school in which their major is located for additional scholarship opportunities.

Transfer Academic Scholarships

Phi Theta Kappa Scholarship: This two-year scholarship, valued at $3,000 per year, is reserved for transfer students who are members of Phi Theta Kappa (PTK) and have a cumulative GPA of 3.5 or higher based on all transferrable coursework. PTK membership must either be noted on their official college transcript or a letter must be received from their faculty sponsor by the March 1 deadline, confirming membership. Students must be U.S. citizens or permanent residents to receive this award.

UAB Transfer Excellence Scholarship: This two-year scholarship, valued at $1,500 per year, is reserved for transfer students with a cumulative GPA of 3.5 or higher based on all transferrable coursework, who are not members of Phi Theta Kappa.
UAB Transfer Scholarship of Distinction: This two-year scholarship, valued at $1,000 per year, is reserved for transfer students with a cumulative GPA of 3.5-3.74 based on all transferrable coursework, who are not members of Phi Theta Kappa.

UAB Joint Admission Scholarship: This two-year scholarship, valued at $2,000 per year, is reserved for students who participate in the Joint Admission Program at one of our partner community colleges. To be eligible, students must be continuously enrolled at a partner community college for a minimum of one year, fulfill all requirements of the Joint Admission Program, earn a non-technical associate's degree with a minimum GPA of 3.0 based on all transferrable coursework, and submit final and official transcript(s) to UAB.

Other Scholarships for which Entering Transfer Students May Apply

Students must first submit the General Application via the Blazer Scholarship Management and Resource Tool [BSMART] at www.uab.edu/bsmart to access additional scholarship applications.

All-Alabama Academic Team Scholarship: This two-year scholarship, valued at $1,000 per year, is available to entering transfer students who are All-Alabama Academic Team (AAAT) members that are not receiving one of the following Transfer Academic Scholarships from UAB: PTK, Transfer Excellence, Transfer Scholarship of Distinction, or Honors Choice. Qualified students must submit a letter from the Alabama Community College System by May 1 for the upcoming fall semester, verifying their AAAT honor.

Current UAB Students

The university-wide scholarship application for currently enrolled students is available via the Blazer Scholarship Management and Resource Tool (BSMART) at www.uab.edu/bsmart in October each year. All applications and supporting documentation must be submitted by 11:59pm (CST) on February 1. Students must first submit the General Application in BSMART in order to access additional scholarship applications. Most scholarship decisions are made in the spring term and will go into effect the following academic year.

Scholarships from specific schools and departments may require additional applications, and their deadlines may vary. Students should check with the school in which their major is located for additional scholarship opportunities.

Scholarships for Current UAB Students

Academic Affairs Scholarship: Selection for this award is based on the financial need and academic achievements of current full-time UAB students who are currently enrolled in, or admitted to, a degree-seeking program in the College of Arts and Sciences, Business, Education, or Engineering at UAB. Students must have a grade point average of 3.0 or higher and be U.S. citizens or permanent residents to receive this award.

African American Faculty Association Endowed Scholarship: Selection for this award is based on the academic promise and achievements of current full-time UAB students who are graduates of a public high school in the Birmingham metropolitan area. Preference will be given to students who demonstrate financial need and a commitment to public service within African American communities either in the Birmingham metropolitan area or in the state of Alabama. Public service should be performed while the student is enrolled at The University of Alabama at Birmingham. Students must be U.S. citizens or permanent residents to receive this award.

Birmingham Racing Commission Scholarship: Selection for this award is based on the academic achievements of current full-time UAB students who are residents of Jefferson County, Alabama. To be considered, students must be enrolled in a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Charles "Charlie" Campbell Endowed Memorial Scholarship: This one-year scholarship is based on the academic achievements of current full-time UAB students who are residents of Alabama. To be considered, students must have an overall grade point average of 3.0 or higher and be enrolled in a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award. Preference will be given to students who reside in Bessemer, Alabama.

Crawford T. and Virginia Johnson Presidential Scholarship: A two-year scholarship based on the academic achievement, leadership, and extracurricular activities of current sophomore students who are residents of the Birmingham Metropolitan Statistical Area (Blount, Jefferson, Shelby, St. Clair or Walker counties). To be considered, students must have a cumulative UAB grade point average of 3.5 or higher, have completed a minimum of 48 semester hours of coursework by the following fall term and be enrolled in a regular undergraduate program at UAB. Students must be enrolled full-time and be a U.S. citizen or permanent resident to receive this award.

Ehney A. Camp Jr., Endowed Scholarship: A one-year award based on financial need, leadership, and the academic achievements of current full-time UAB students. To be considered, students must have earned a 3.25 cumulative UAB grade point average and be enrolled in a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Goodfellow Scholarship: A one-year scholarship based on the financial need of current full-time UAB students who are residents of Blount, Jefferson, Shelby, St. Clair, and Walker counties of Alabama. Students must be U.S. citizens or permanent residents to receive this award.

Helping Other People Excel (HOPE) Scholarship: This scholarship is based on the financial need, academic achievement, and extracurricular activities of current full-time UAB students who are residents of Alabama. To be considered, students must demonstrate a successful history of employment, active participation in community activities and be enrolled in a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Jack Edwards Alabama Power Foundation Scholarship: A renewable award that is based on the academic achievements of current full-time UAB students who are residents of Alabama. To be considered, students must be enrolled in a regular undergraduate or graduate program (except the School of Medicine) at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Joseph F. Volker Memorial Scholarship: A one-time scholarship based on the academic achievements of current full-time UAB students who are residents of Alabama. To be considered, students must have an overall grade point average of 3.0 or higher and be enrolled in a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Mary Elizabeth Adams Endowed Scholarship: This award is based on the academic achievements, financial need, and extracurricular activities of current UAB students who self-identify as having type I diabetes. To be considered, applicants must have earned at least an overall 3.5
grade point average, earned at least a 25 on the ACT (or an equivalent score on the SAT) and demonstrated leadership ability and achievement in previous pursuits, whether of a scholastic or extracurricular nature. Students must also be an Alabama resident and a U.S. citizen or permanent resident to receive this award. Preference will be given to students who plan to pursue a degree in the sciences, or who have declared a pre-medicine major.

Nellie Whitworth Flaherty and Lula McCord Whitworth Endowed Scholarship: A one-year scholarship based on the academic achievements of current female UAB students who have been or are in the work force and are returning to school to complete their education on either a part-time or full-time basis. To be considered, students must have at least an overall grade point average of 2.5 or higher, demonstrate financial need and be admitted to a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Samuel Ullman Scholarship: This scholarship is based on the leadership, academic and individual achievements of current full-time UAB students who are residents of Alabama. To be considered, students must have earned at least a 3.0 grade point average and be admitted to a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

Steelcase Alabama Scholarship: This scholarship is based on the financial need and academic achievements of current UAB students who are residents of Limestone County, Alabama or surrounding counties. Students must be U.S. citizens or permanent residents to receive this award.

The Alliance for LGBTQ Equality at UAB Scholarship: To be considered for this award, students must be currently enrolled in, or admitted to, a degree-granting program at UAB and demonstrate solid academic promise and achievement, earning at least a 3.0 grade point average in any coursework completed prior to the time of application. Preference will be given to applicants who can demonstrate service to the Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) community. Applicants are evaluated on the totality of their situation: academic achievement, financial need, demonstrated service to the LGBTQ community, demonstrated leadership skills, and present and future goals.

The Howlin’ Mad Smith Detachment of the Marine Corps League Sponsored Scholarship: This scholarship is based on the academic achievement of current full-time UAB students who are current or former members of the U.S. Marine Corps. To be considered, students must demonstrate leadership in their community, have a cumulative UAB grade point average of 2.5 or higher and be enrolled in a regular degree-granting program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

UAB Affinity Cardholders Scholarship: Selection for this award is based on the financial need, academic achievement, and extracurricular activities of current full-time UAB students. To be considered, students must have earned at least a 2.5 cumulative UAB grade point average and be enrolled in a regular undergraduate program at UAB. Students must be U.S. citizens or permanent residents to receive this award.

UAB General Scholarship: An award based on the financial need, academic achievements, and extracurricular activities of current full-time UAB students. To be considered, students must have achieved Junior or Senior standing in a degree-seeking program at UAB, have a minimum 3.0 cumulative UAB grade point average and be U.S. citizens or permanent residents to receive this award.

UAB Leadership Council Scholarship: An award based on the academic achievement and extracurricular activities of current sophomore students who are residents of the Birmingham Metropolitan Statistical Area. To be considered, students must have a cumulative UAB grade point average of 3.0 or higher, have completed a minimum of 60 semester hours of course work and be enrolled in a regular undergraduate program at UAB. Students must be enrolled full-time and be a U.S. citizen or permanent resident to receive this award.

UAB Women’s Club Scholarship: An award reserved for deserving female students who are working to overcome financial hardships to further their education at UAB. Applicants must be currently enrolled, full-time or part-time, in an undergraduate program at UAB. Selection is based on communication skills, career goals and commitment to your major field. Priority consideration is given to undergraduate students with the greatest number of UAB hours and a cumulative UAB GPA of 3.0 or higher.

Vettes-4-Vets Endowed Scholarship: This scholarship is an award based on the academic achievement, leadership, and community involvement of students who are currently enrolled in, or admitted to, a degree-granting program at UAB and must be current or former members of a branch of the United States Military. To be considered, students should have earned at least a 2.5 cumulative UAB grade point average (on a 4.0 scale) in any coursework completed prior to the time of application.

Virginia and Anna Praytor Scholarship: A renewable scholarship that is based on the academic achievements of current UAB students who are graduates of a high school in the Birmingham Public School system. To be considered, students must have earned at least a 3.0 cumulative UAB grade point average. Students must be U.S. citizens or permanent residents to receive this award.

W. Ann Reynolds Endowed Presidential Scholarship: This scholarship is awarded to entering freshmen and current UAB students who are admitted to, or currently enrolled in, an undergraduate degree-seeking program at UAB. Applicants should demonstrate financial need, leadership ability, and academic achievement while earning at least an overall 3.5 grade point average by the time of application.

Program-Related Scholarships

The following are Honors College and Honors College Program-Related Scholarships. Please contact the Honors College or individual program listed for more information on the application process.

Honors College:

Britt and Susan Sexton Endowed Honors Scholarship: Applicants must be in a degree-granting program through the Honors College. Preference given to first year undergraduate students. Applicants should show solid academic promise and have earned a 3.5 grade point average. Applicants should also display a wide variety of artistic, cultural, and extracurricular activities and academic pursuits and have passionately explored these pursuits. Preference will also be given to those with fervor for community involvement and service-related volunteer activities.

Woman’s Club House of the Third District of the Alabama Federation of Women’s Clubs, Inc., Endowed Honors Scholarship: Applicants
must be in a degree-granting program through the Honors College. Preference given to first year, female students. Applicants should show solid academic promise and have earned a 3.5 grade point average. This award is based on merit and need; however, applicants do not have to qualify for federal financial assistance to be considered. Applicants should also display a wide variety of artistic, cultural, and extracurricular activities and academic pursuits and have passionately explored these pursuits. Preference will also be given to those with a fervor for community involvement and service-related volunteer activities.

**Edith and Franklyn Zimmerman Endowed Honors Scholarship:** Applicants must be in a baccalaureate degree-granting program through the Honors College. Preference given to first year undergraduate students. Applicants should demonstrate solid academic promise and achievement and have earned at least an overall 3.5 (on a 4.0 scale) grade point average in coursework completed prior to the time of application and have earned a score of at least 25 on the ACT or an equivalent score on the SAT. Applicants should also demonstrate leadership ability and achievement in previous pursuits, whether of a scholastic or extracurricular nature.

**University Honors Program (UHP):**

**Boman-Powell Student Travel Award:** Established by Daphne and Richard Powell in honor of their mothers to enable students in the University Honors Program to travel to regional and national conferences or for education abroad. This fund allows UHP students to expand their educational experience through travel that would not otherwise be possible because of financial constraints. There is no formal application form, but any UHP student may apply by contacting the UHP Director and providing Documentation of the program/conference and costs associated with participation.

**Hess-Abroms Honors Scholarship Endowment:** Applicants must be in a baccalaureate degree-granting program through the University Honors Program. This four-year scholarship is typically awarded to incoming freshmen accepted to the University Honors Program. Applicants should demonstrate superior academic achievement (as reflected in grades, test scores, and class rank), creativity or talent (as in the sciences, fine arts, leadership, or independent study), strong motivation, exemplary character, and intellectual promise. All applicants for the University Honors Program are encouraged to apply for this scholarship. Applications due mid-February.

**Steven C. Smith Discovery Award:** Applicants must be currently enrolled in, or admitted to, a degree-granting program at UAB and accepted to the University Honors Program. First preference will be given to entering first-year students in the program. Applicants should demonstrate solid academic promise and achievement and have earned at least a 3.0 grade point average in any coursework completed prior to the time of application. The award of this scholarship will be based on both merit and need. Applicants should display interest in a wide variety of artistic, cultural, and extracurricular activities and academic pursuits and must have a passion for exploring these pursuits as avenues of opportunity present themselves. Preference will also be given to applicants with fervor for community involvement, particularly service-related volunteer activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

**William J. Rushton III/Alabama Power Foundation Scholarship Endowment:** Applicants must be incoming or current members of the University Honors Program in good standing and be residents of Alabama. This award is based on merit and need. Applicants should have a strong academic background, a strong commitment to academic achievement and extracurricular activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

**William M. Spencer III Endowed Honors Scholarship:** Applicants must be admitted to or be current members of the University Honors Program. This award is based on merit and need. Applicants should have a strong academic background and a strong commitment to academic achievement and extracurricular activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

**Juliet Nunn Pearson Scholarship:** Applicants must be entering UAB freshmen admitted to the University Honors Program. Preferences are given to non-traditional students, pre-professional students, and/or minority students. This award is based on merit and need. Applicants should have a strong academic background and a strong commitment to academic achievement and extracurricular activities. Financial need will be determined by the scholarship selection committee based on the information provided by the student when applying for the award. Applicants do not have to qualify for federal financial assistance in order to be considered for this award. Applications for all one-year scholarships are due May 1. Applicants are automatically considered for all one-year scholarships for which they are eligible.

**Nelson and Maye Hill Honors Fund:** Applicant must be a student in the University Honors Program and be accepted to an academic Study Abroad program. This award is based on merit and need. Applicants should have a strong academic background and a strong commitment to the academic and extracurricular activities of the University Honors Program. No application deadline.

**Science and Technology Honors Program (STHP):**

**Wells Fargo Scholars Program:** Applicants must be enrolled in the Science and Technology Honors Program and have at least a 3.0 GPA. Preference is given to students with unmet financial need who are from groups underrepresented in their field of study. The award is based on merit and need, but applicants do not have to apply for federal financial assistance to be considered. This program awards 4-year scholarships to STHP students with strong academic backgrounds who have a desire to pursue a research career. The award is for underrepresented minorities and females majoring in Chemistry, Engineering, Math, and Computer Science. An application and interview are required for consideration. The application process typically opens in December of each year and closes in January.

**Wells Fargo Summer Scholars Academic Enrichment Awards:** This program awards scholarships of up to $2,500 to current STHP students. These competitive, merit-based awards are used to support
summer research and academic activities. A call for applications for each scholarship opportunity will be announced to all current students each year (typically in late February) along with the application instructions and deadlines (typically mid-March).

**Student Academic Engagement**

**Education Abroad**

**Pushpamala Deosthale Scholarship for Study Abroad:** This scholarship, established in 1999, was named in the memory of Ms. Pushpamala Deosthale and was established by contributions coming in part from her son, Dr. Duleep C. Deosthale, a former director of a predecessor office to UAB Education Abroad. This scholarship awards funds to be used for tuition and fees for a UAB Education Abroad-approved fall or spring program.

**Dr. John Downey Jones Scholarship for Study Abroad:** This scholarship, established in 1993, was named in the honor of Dr. John Downey Jones, Jr., a former director of a predecessor office to UAB Education Abroad. This scholarship awards funds to be used for tuition and fees for a UAB Education Abroad-approved fall or spring program.

For more information, including eligibility and application instructions, visit www.uab.edu/educationabroad.

**ROTC**

**Kelly Ingram VFW Post 668 Distinguished Army ROTC Cadet Scholarship:** Non-renewable Award to the most outstanding student selected from among the incoming senior class of ROTC. Applicants must have a 3.0 GPA. Determined by the Army ROTC program and the Office for Student Financial Aid.

**College and School Scholarships**

**College of Arts & Sciences**

The UAB College of Arts and Sciences offers over 50 scholarships. In order to be considered for a scholarship you must have a declared College of Arts and Sciences major and submit a scholarship application. While most of these scholarships require you to already be enrolled in the College, there are some awards available for incoming students. Important information, including the application process, eligibility requirements, and deadlines, are available on the UAB College of Arts and Sciences website: http://www.uab.edu/cas/home/scholarships

In addition some departments offer their own scholarships. If you are interested in a scholarship or award offered by a specific department, please visit its website for more information.

**Art and Art History**

For More Information, Please contact the Department of Art and Art History (205) 934-4941.

**Art Department Senior Scholarship:** This scholarship is awarded annually to a rising senior concentrating in studio art chosen by vote of the Department of Art and Art History faculty.

**Bernice Cook Thomas Endowed Scholarship:** This scholarship is awarded annually to a student majoring in art. Preference shall be given to applicants from underrepresented, low-income, and minority populations.

**John Dillon Endowed Scholarship:** This scholarship is awarded annually to a student concentrating in studio art and doing significant work in printmaking.

**Edith B. Frohock Memorial Endowed Scholarship:** This scholarship is awarded annually to a junior concentrating in studio art.

**Incoming Freshman Art Scholarships:** Scholarships awarded annually to new high school graduates planning to major in art. Application requires portfolio.

**Kluge/Langley Endowed Scholarship:** This scholarship is awarded annually to a student concentrating in studio art.

**The Betty Loeb Endowed Scholarship:** Applicants for the Loeb Endowed Scholarship must be enrolled in the Department of Art and Arts History’s Painting Program and must maintain at least a 3.0 grade point average.

**John Schnorrenberg Endowed Scholarship:** This scholarship is awarded annually to an undergraduate concentrating in art history.

**Ellen Shizuko Takahashi Endowed Scholarship:** This scholarship is awarded annually to a student concentrating in studio art and doing significant work in painting.

**Dr. Klaus Urban Endowed Scholarship for the Department of Art and Art History:** Applicants for the Urban Scholarship must be enrolled in the Department of Art and Art History’s Art History Program, must submit a transcript, portfolio of recent work and one-page artist’s statement with their application and must have at least a 3.0 grade point average.

**Marie Weaver and Steve Harvey Endowed Scholarship:** This Graphic Design scholarship is awarded annually to a student concentrating in studio art and doing significant work in graphic design.

**Biology**

For More Information, Please Contact the Department of Biology (205) 934-9685.

**Biology Scholars Fellowship:** Freshmen who will be enrolled in full-time study as a Biology major at UAB are eligible for consideration for the Biology Scholars award. Awards are highly competitive and will be given to students who have an overall High School GPA of 3.5 or greater, a score of 26 or greater on the ACT, and show leadership skills and academic potential for research. Student finalists will be personally interviewed by representative members of the Biology faculty.

**Anne Moreland Cusic Endowed Scholarship:** Applicants must be currently enrolled in an undergraduate program in the Department of Biology and have completed BY 123 and BY 124 at UAB. Applicants should demonstrate academic promise and have at least a 3.0 grade point average overall and in their biology courses. Recipients may not apply for scholarship in subsequent years.

**Luke Gallagher Memorial Biology Scholarship:** Applicants must be currently enrolled as a Biology major and have completed BY 124. Applicants should demonstrate academic promise and have at least a 3.0 grade point average overall and in their biology courses. Preference will be given to applicants who deserve financial assistance.
assistance. Recipients may not apply for scholarship in subsequent years.

Ken R. Marion Endowed Scholarship: Applications for the Ken R. Marion Endowed Scholarship must be enrolled in the Department of Biology as an undergraduate student and must maintain at least a 3.0 grade point average.

Chemistry

For More Information, Please Contact the Department of Chemistry (205) 975-7821.

Chemistry Scholars Fellowships: Qualified incoming freshmen are eligible to apply to be a fellow in the Chemistry Scholars Program. Students must declare Chemistry as their major and have a composite ACT score of 26 or above.

Communication Studies

For More Information, Please Contact the Department of Communication Studies (205) 943-3877.

Mary Anne Amsbary Endowed Award: This award commemorates outstanding community service for any communication studies student.

Victoria and Ralph Johnson Endowed Scholarship: Applicants for the Johnson Endowed Scholarship must be enrolled in the Department of Communication Studies. Preference will be given to first generation college students who are over the age of 22 years of age and who are a current or previous union member or are a spouse or child of a current union member.

James E. Mills Scholarship: This scholarship is reserved for the best junior or senior journalism major.

Dr. William R. Self Memorial Endowed Scholarship: This scholarship is reserved for a student in Communication Studies.

Byron St. Dizier Endowed Journalism Scholarship: This scholarship is reserved for a junior or senior student in print or broadcast journalism.

Trotter Endowed Scholarship: This scholarship is reserved for the outstanding Communication Management graduate or undergraduate student.

John W. Wittig Public Relations Alumni Endowed Presidential Scholarship: This scholarship is reserved for a junior or senior student majoring in public relations.

Computer & Information Sciences

For More Information, Please Contact the Department of Computer and Information Sciences (205) 934-2213.

Joseph M. Fontana Scholarship Endowment Fund for Computer and Information Sciences: Applicants must be junior or senior student with a major in the Computer & Information Sciences program, should demonstrate academic promise, and have earned at least a 3.0 GPA in any course work completed prior to application. Additionally, a grade point average of 3.5 must have been achieved in all computer science courses taken up to the time of selection. Preference is given to U.S. citizens and permanent residents. Recipients may apply for renewal for a second year.

Joyce Iannuzzi Endowed Presidential Scholarship for Computer Science and Technology: Applicants must be currently enrolled as Computer Science majors at the time of application, should have demonstrated solid academic promise, and have earned a 3.0 overall GPA. Applicants should submit a one page essay, which emphasizes his/her CS academic accomplishments, extra-curricular activities, and career goals. A cover sheet with student name, address, phone, and email must accompany the essay. Applicants can be freshman, sophomore, junior, or senior status.

English

For More Information, Please Contact the Department of English (205) 934-4250.

Barksdale-Maynard Endowed Creative Writing Prize: Established in honor of Mrs. Maynard completing the first M.A. thesis in Creative Writing at UAB, the Barksdale-Maynard Endowed Creative Writing Prize is given out annually to students who achieve excellence in fiction and poetry in the Department of English.

English Recruiting Endowed Scholarship: Established by the English Advisory Committee. Applicants for the English Recruiting Endowed Scholarship must be entering freshmen to UAB and enrolled in the Department of English and must maintain at least a 3.0 grade point average.

Gloria Goldstein Howton Scholarship Endowment: This annual award is reserved for undergraduate or graduate students enrolled in the Department of English and interested in pursuing a career in creative writing.

Phillips Scholarship in English: This annual award is reserved for junior English majors with a GPA of 3.0 or better.

Grace Lindsley Waits Scholarship: This annual award is reserved for junior English majors with a GPA of 3.0 or better.

Government

For More Information, Please Contact the Department of Government (205) 934-8674.

Voytek Zubek Memorial Endowed Scholarship: This scholarship is open to students currently enrolled in the Department of Government in the College of Arts and Sciences, and they must be Political Science majors. The scholarship recipient must have demonstrated solid academic promise and leadership qualities, and have at least an overall 3.0 grade point average and a 3.3 grade point average in Political Science.

Justice Sciences

For More Information, Please Contact the Department of Justice Sciences (205) 934-2069.

Justice T. Eric Embry Scholarship: Applicants for this scholarship must be enrolled in, or admitted to, the Master of Science in Forensic Science (MSFS) program and have earned at least a 3.0 GPA in coursework completed prior to the time of application. The number and amount of the awards to be granted from this scholarship fund shall be left to the discretion of the scholarship committee and based on the spendable income earned.
Pre Law Advisory Board Scholarship: To be eligible the student must demonstrate solid academic credentials and be involved with the UAB undergraduate Pre-Law Program and/or Mock Trial Team as well as maintain a 3.0 minimum grade point average.

Mathematics
For More Information, Please Contact the Department of Mathematics (205) 934-2154.

Robert M. Kauffman Memorial Endowed Award Fund: This award may be given for cumulative achievement for an individual’s outstanding work. Work done outside of the normal curriculum, such as projects and contributions to seminars, may also be considered. Preference is given to students who demonstrate outstanding ability, potential and interest in pursuing studies in Mathematics.

Travis Wood Memorial Mathematics Scholarship: Applicants must be currently enrolled as Mathematics majors and have completed Calculus III. Candidates must have a 3.0 GPA overall and in their mathematics courses. Preference will be given to full-time undergraduates with dependent(s) who are in need of financial aid. Special consideration is given to mature candidates who have suffered an interruption in their education.

Mathematics Fast Track Scholarships: Students in this program are expected to complete both a BS and Master’s degree in mathematics. Many students do this in four years. Freshmen must be able to start in Calculus I. All students must maintain a 3.5 GPA in mathematics courses. The program provides for office space, support to attend mathematical meetings, participation in a seminar and individual weekly meetings with a faculty member.

O’Neil Endowed Scholarship in Mathematics: Applicants must be currently enrolled, or admitted to, UAB with the declared intent to pursue a major in mathematics. Applicants should demonstrate academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application. Preference will be given to applicants who demonstrate outstanding ability, potential and interest in pursuing studies in mathematics.

James C. and Carol Warner Endowed Scholarship: First preference will be given to entering first-year students. Applicants should demonstrate solid academic promise and have an overall 3.0 GPA completed prior to application.

Music
For More Information, Please Contact the Department of Music (205) 934-7376.

Band Scholarships: Students are required to participate in various ensembles as determined by the director(s). Open to students of all disciplines.

Choral Scholarships: Students are required to participate in various ensembles as determined by the director(s). Open to students of all disciplines.

James Darrell McAnnally Piano Scholarship: For a music major in piano performance.

Music Technology Scholarships: Scholarships are available for students majoring in Music Technology.

Myrtle Jones Steele Piano Scholarship Endowment: For music majors in piano performance.

Alys Robinson Stephens Alumni Scholarship for the Performing Arts: For a music major in any instrument or voice.

Stevie Wonder Music Scholarship Endowment: For music majors in the Music Technology Program.

UAB Music Scholarships: Music majors in any instrument or voice.

Physics
For More Information, Please visit http://www.uab.edu/cas/home/scholarships.

Robert and Edith Bauman Endowed Scholarship in Physics: Applicants must be currently enrolled in, or admitted to, a degree-granting program in the Department of Physics at UAB. Applicants should demonstrate academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application. This is an annual award. Although preference will be given to entering first-year students, recipients of the scholarship may apply for the award in subsequent years.

Psychology
For More Information, Please visit http://www.uab.edu/cas/home/scholarships.

The Passey Psychology Prize Endowment: The Passey Psychology Prize Endowment goes to the student who is judged to have shown the best overall level of accomplishment in psychology – both in terms of course grades and also research and other department activities.

Sociology and Social Work
For More Information, Please Contact the Department of Sociology and Social Work (205) 934-3307.

Ferris S. and Annie Pharo Ritchey Endowed Scholarship in Sociology: Applicants must be deserving undergraduate students in the Department of Sociology. This scholarship was named by Dr. Ferris Ritchey, former Chair and faculty member in the Department of Sociology, and his family in memory of grandparents.

Theatre
For More Information, Please Contact the Department of Theatre (205) 934-3236.

Ruby Lloyd Apsey Scholarships: These scholarships are awarded annually and are renewable for promising students majoring in theatre.

Fannie Flagg/Kathy Waites Endowed Scholarship: Applicant must be a deserving student majoring in dance or Theatre Arts at UAB.

David Lloyd Memorial Scholarship Endowment: These scholarships are awarded annually and are renewable for outstanding students majoring in theatre.
William C. Ozier Memorial Scholarship: Applicants must be residents of Alabama. Applicants must show financial need and demonstrate talent in theatre arts.

College Wide Scholarships
For More Information, please visit http://www.uab.edu/cas/home/scholarships.

College of Arts and Sciences Dean’s Scholarship: Applicants must be currently enrolled in a degree-granting program in the College of Arts and Sciences. Applicants should demonstrate leadership qualities and academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application. This is an annual award. Recipients of the scholarship may not apply for the award in subsequent years.

Edward H. Atchison Endowment Fund for Scholarships in the Visual and Performing Arts: A four-year scholarship which covers full tuition and fees for an undergraduate student enrolled in a full-time program in the Visual and Performing Arts or for undergraduate students enrolled in the School of Education’s Art Education or Music Education Programs. Students must maintain a 2.5 overall grade point average.

Gladys Davies and George F. Brockman IV Endowed Scholarship: Applicants must be currently enrolled in a degree-granting program in the Departments of Biology, Chemistry, Computer and Information Sciences, Mathematics or Physics. Applicants should demonstrate academic promise and have earned at least a 3.0 grade point average in coursework completed prior to application.

The God at the Speed of Light Endowed Scholarship: Applicants must be currently enrolled, or admitted to, a degree-granting program in the Departments of Biology, Chemistry, Computer and Information Sciences, Mathematics or Physics. Applicants should demonstrate academic promise and have earned at least a 2.5 grade point average in coursework completed prior to application. Preference will be given to applicants who are deserving of financial assistance. This is an annual award and recipients may apply for the award in subsequent years. Applicants must be residents of Alabama.

Lauren McEllan Sanders Endowed Scholarship: The Sanders Scholarship is open to students currently enrolled in the Departments of Government, History, Anthropology, Justice Sciences, Psychology and Sociology and Social Work who have demonstrated solid academic promise and have at least an overall 3.0 grade point average. The Lauren McEllan Sanders Scholarship is an annual award. Recipients of the scholarship may apply for the award in subsequent years.

Jane White Mulkin Endowed Scholarship: This scholarship is awarded annually to a student enrolled in, or admitted to, the Departments of Art and Art History, Communication Studies, English, Foreign Languages and Literatures, Music, Philosophy or Theatre. Preference given to applicants in need of financial assistance, particularly non-traditional students who are attending school while working. Applicants must be residents of Alabama.

NASA-Alabama Space Grant Program Scholarships: Scholarships are available to science and engineering students through the NASA-Alabama Space Grant Program. Apply through the Department of Physics.

National Alumni Society Dean’s Scholarship: The National Alumni Society Dean’s Scholarship is a college-wide scholarship and is open to students currently enrolled in or admitted to a degree-granting program in the College of Arts and Sciences who have demonstrated solid academic promise and leadership qualities, and have at least an overall 3.0 grade point average.

Tennant and Susan McWilliams Endowed Scholarship: This fund provides scholarship support to students currently enrolled in the Departments of Government, History and Anthropology, Justice Sciences, Psychology and Sociology and Social Work.

School of Education Scholarships
All Scholarships and Awards are for students in good standing and pursuing degrees from the School of Education. Other stipulations and requirements are noted with each Award or Scholarship listing.

Dr. Lydia L. Alexander Endowed Student Award in Education
Dr. Lydia L. Alexander was a long-time faculty member and served six years as Assistant Dean in the School of Education. She retired in 1998, but continues to work in and give back to the community through Alpha Kappa Alpha sorority and other charitable organizations. Dr. Alexander received the Lifetime Achiever award from the Oliver Robinson Foundation in 2012 and remains an ardent proponent of quality education.

Criteria:
• Applicant must be a Junior or Senior student seeking a degree in Education.

Beta Chi ESG Clint Bruess Health Education Scholarship
In 2009 and in recognition of his long years of service to UAB and the School of Education, the Eta Sigma Gamma Beta Chi chapter Executive Board at UAB established this Scholarship in honor of Dr. Clint E. Bruess. Dr. Bruess was a School faculty member, and served as Chair of the Department of Human Studies from 1981 through 1987 and subsequently as Dean of the School of Education from 1988 until 1999.

Criteria:
• Applicants must be pursuing a degree in a Health Education-related major.
• Applicants should demonstrate solid academic promise and have earned at least a 3.3 grade point average.
• Preference will be given to members of the Beta Chi Chapter of Eta Sigma Gamma.

The Catharine Comer Friend Endowed Scholarship
Catharine Comer Friend was very active in the Birmingham community, serving as Executive Director of the Birmingham Kiwanis Club and Chair of the International Association of Kiwanis Secretaries, and was a member of The Junior League of Birmingham, the Linly Heflin Unit, and the Women’s Fund. She was an ardent supporter of UAB and the Greater Birmingham area, and deeply committed to education. This Scholarship was created in 2006 by Mr. and Mrs. Edward M. Friend III.

Criteria:
• Preference will be given to students who wish to teach in schools that serve predominantly disadvantaged students and/or in an urban setting in Alabama.
• Applicants should have earned at least an overall 3.0 GPA (based on a 4.0 scale) in coursework prior to the time of application.
• Preference will be given to those deserving financial assistance as determined by the UAB Office of Student Financial Aid.

**The Early Childhood Education Graduate Student Award**

A thoughtful donor and friend of the UAB School of Education has created an award to assist deserving students who are enrolled in the UAB School of Education Early Childhood Education program.

**Criteria:**

• Applicants must be enrolled in or admitted to a graduate degree-granting program in Early Childhood Education.
• Preference will be given to students pursuing a doctoral degree.
• The Award is not renewable.

**The Layla Ghabayen Education Scholarship**

Layla Ghabayen was an education major at the UAB School of Education. She was involved in a fatal auto accident in 2010, and her loving parents, Waleed and Cynthia Ghabayen, and family wanted a way to keep her spirit alive and create a lasting tribute to her and the joy she derived from helping others learn. The oldest of four, Ms. Ghabayen was industrious, intelligent, enthusiastic, curious, and committed to working with children – her dream was to be a teacher and mother. Each year, a student recipient is chosen who best exemplifies the selfless and energetic qualities of Ms. Ghabayen.

**Criteria:**

• Applicants must be enrolled in or admitted to the Early Childhood Education/Elementary Education Program in the School.
• Applicants should have at least a 3.0 GPA.

**The Virginia Horns-Marsh Scholarship**

Dr. Virginia Horns-Marsh began her UAB career in 1969, when the University was first designated as an autonomous institution. She worked tirelessly to promote early childhood education and served as the Director of the School’s Early Childhood Education Program, Early Childhood Education Doctoral Program and Metropolitan Education Studies, as Chair of the Department of Curriculum and Instruction. A gift from Dr. Horns-Marsh and gifts from family, friends and colleagues created this Scholarship to provide opportunities for success to future Early Childhood Educator candidates.

**Criteria:**

• Preference will be given to students enrolled in Early Childhood Education and Development of Health Education/Health Promotion in the School.
• In the absence of such applicant, consideration may be given to exceptional doctoral students in the School of Education, then exceptional graduate students in Early Childhood Education, Elementary Education or Secondary Education.
• Recipients must maintain a 3.0 GPA in all coursework.

**The Dr. Delbert H. and Dr. Roberta Long School of Education Endowed Scholarship**

As long-time UAB faculty, Dr Delbert Long and Dr. Roberta Long distinguished themselves by their commitment to educating future teachers and education administrators. Before coming to UAB, Doctors Long taught in Nepal, Indonesia, Czechoslovakia and Germany, among other places, sharing their love of learning and passion for education. They created this Scholarship in order to make access to an education degree easier for students and thereby fostering opportunities to train quality teachers for future generations.

**Criteria:**

• Applicants must be an undergraduate enrolled in or admitted to TEP; in the absence of such an applicant, consideration may be given to students enrolled in the Alternative Master’s Program.
• Applicants must demonstrate financial need as determined by the UAB Office of Student Financial Aid.

**The Artie Manning Memorial Scholarship**

Artie Manning was a unique young man with a special blend of skills and empathy for individuals, particularly children, who faced physical and learning challenges. Artie had cerebral palsy but didn’t let that hinder his interest in and love for athletics, and managed the Lady Blazers basketball team and worked at the Blazers’ summer basketball camps while working on his master’s degree in special education. After graduation, he taught special education at Barrett Elementary School until his death in 1991. What Artie wanted most in life was to serve people, and this scholarship, created by family in his memory, helps preserve that passion.

**Criteria:**

• Applicants must be learning and/or physically challenged.
• In the absence of such applicants, recipients must be preparing to teach learning and/or physically challenged individuals.
• Candidates must be accepted into TEP or a degree-seeking education program in the graduate school of the School of Education.
• Candidates must be full-time and have completed 24 hours (undergraduate) or 18 hours (graduate)
• Recipients must demonstrate financial need as determined by the UAB Office of Student Financial Aid.

**The Maryann Manning Endowed Literacy Scholarship**

Upon Dr. Maryann Manning’s retirement from UAB, friends, colleagues and admirers created this scholarship as a tribute to her many years of service and passion to enhance literacy learning around the world.

**Criteria:**

• Preference will be given to those involved with quality literacy instruction in pre-K through 6th grade.
• Applicants should have at least a 3.0 GPA.
• Preference will be given to those who show financial need as determined by UAB Office of Student Financial Aid.
The Kathryn Cramer Morgan Memorial Scholarship

A long-time resident of Birmingham, Mrs. Morgan was an esteemed employee at UAB, serving as administrative assistant to Dr. S. Richards Hill, Jr., UAB’s second president. She and her husband, Mr. Thomas Henry Morgan, were active participants in University life for over four decades, hosting numerous international students pursuing degrees at UAB. Her loving husband created this scholarship after her death in 1990 as a way to memorialize and honor her life and passion to improve our education systems with enhanced teaching and scholarship.

Criteria:

• In the absence of qualified student candidates, visiting scholars or professors may be funded.

The National Alumni Society Dean’s Scholarship

The National Alumni Society Dean’s Scholarship is a school-wide scholarship given by the National Alumni Society.

Criteria:

• Students should be able to demonstrate solid academic promise and leadership qualities
• Applicants should have at least a 3.0 GPA.

The Dr. Eddie P. Ort Endowed Award

Dr. Eddie P. Ort spent his career training educators, both in UAB classrooms and with in-service education programs for elementary and middle school teachers in the greater Birmingham area. He was a recognized leader in social studies education. Dr. Ort and his family created this Scholarship to assist deserving students conducting their final Research Project in the Educational Specialist Degree program.

Criteria:

• Applicants must have a faculty advisor’s approval to begin an Educational Specialist Research Project.
• Preference will be given to students beginning their research project.
• If no first-time research students apply, students already engaged in a research project may be eligible.
• Recipients should have a strong academic record of performance, and evidence of continued professional excellence will be expected.
• Preference will be given to applicants with teaching or other professional experience commensurate the goals of their respective program field(s).
• Preference will be given to applicants currently employed in their respective field(s).

The Frances M. Owens Endowed Scholarship

A native of Birmingham and UAB alumna, Frances M. Owens taught English and social studies at Mountain Brook Junior High School. She is a member of the UAB National Alumni Society and remains a faithful supporter of many programs across the UAB campus. Mrs. Owens created this Scholarship to provide assistance and greater opportunity to those diagnosed with ADD/ADHD become educators, and thereby better serve and positively impact students in our K-12 school systems.

Criteria:

• Preference will be given to entering freshmen students with ADD/ADHD registered through UAB Disability Support Service.

The Dr. Mabel C. Robinson Memorial Endowed Scholarship

This Scholarship was created by the friends and family of Dr. Mabel C. Robinson, and in tribute to her life-long work in physical and health education. Dr. Robinson spent her life advocating for greater opportunities for girls and women in athletics and physical and health education. Her efforts were assisted by passage of Title IX legislation and by the health and wellness and education faculty at UAB. This Scholarship will help foster opportunities for students to earn a degree from UAB and be better prepared to enter the profession.

Criteria:

• Applicants must be pursuing an undergraduate degree in health or exercise education-related degrees.
• Preference shall be given to females.

The Mildred, Mack & Blanche Stewart Teacher Education Endowed Scholarship

Mildred Stewart Snipes was the first elementary guidance counselor in the Jefferson County Public School System, working 36 years at Gardendale Elementary School. Her firm belief when women have access to education, their cultural influence will permeate their families as well as the children they teach. Mrs. Snipes created this scholarship to create opportunities to assist students in becoming strong, passionate and well-trained educators who will positively impact students’ lives. The Scholarship was created as a memorial to her parents Mack and Blanche Stewart who fostered a love of learning and sense of giving back to the community.

Criteria:

• Applicants must have graduated from the Jefferson County Public School System, or Spain Park, Leeds, Hewitt-Trussville, or any high school in Bibb, Blount, Cullman, St. Clair, Shelby, Tuscaloosa or Walker Counties.
• Preference will be given to entering freshman
• If no freshmen apply, consideration may be given to transfer students from community colleges that attended previously mentioned schools.
• Recipients must maintain a 3.0 GPA.
• Applicants who are transfer students from a community college must apply and be accepted into TEP and be seeking certification from the State Department of Education.

The Ruth M. Strong Scholarship

Dr. Ruth M. Strong spent her professional life helping children find a brighter tomorrow. She began her teaching career at Mccaw Elementary School, where she implemented a reading program which grew into the Birmingham City Schools Right-to-Read Program. She was named Director of this reading initiative. She also served as Program Specialist for Reading. Director of the Magnet School Program, and Assistant Superintendent for Instruction for the Birmingham City School System. This Scholarship is provided annually by a generous gift from Dr. Strong, and supports a student who will carry forward Dr. Strong’s proud legacy.

Criteria:

• Applicants must be a full-time undergraduate student.
• Applicants must be accepted in the TEP as an undergraduate
• Preference shall be given to females.

The Kathryn Cramer Morgan Memorial Scholarship

A long-time resident of Birmingham, Mrs. Morgan was an esteemed employee at UAB, serving as administrative assistant to Dr. S. Richards Hill, Jr., UAB’s second president. She and her husband, Mr. Thomas Henry Morgan, were active participants in University life for over four decades, hosting numerous international students pursuing degrees at UAB. Her loving husband created this scholarship after her death in 1990 as a way to memorialize and honor her life and passion to improve our education systems with enhanced teaching and scholarship.

Criteria:

• In the absence of qualified student candidates, visiting scholars or professors may be funded.

The National Alumni Society Dean’s Scholarship

The National Alumni Society Dean’s Scholarship is a school-wide scholarship given by the National Alumni Society.

Criteria:

• Students should be able to demonstrate solid academic promise and leadership qualities
• Applicants should have at least a 3.0 GPA.

The Dr. Eddie P. Ort Endowed Award

Dr. Eddie P. Ort spent his career training educators, both in UAB classrooms and with in-service education programs for elementary and middle school teachers in the greater Birmingham area. He was a recognized leader in social studies education. Dr. Ort and his family created this Scholarship to assist deserving students conducting their final Research Project in the Educational Specialist Degree program.

Criteria:

• Applicants must have a faculty advisor’s approval to begin an Educational Specialist Research Project.
• Preference will be given to students beginning their research project.
• If no first-time research students apply, students already engaged in a research project may be eligible.
• Recipients should have a strong academic record of performance, and evidence of continued professional excellence will be expected.
• Preference will be given to applicants with teaching or other professional experience commensurate the goals of their respective program field(s).
• Preference will be given to applicants currently employed in their respective field(s).

The Frances M. Owens Endowed Scholarship

A native of Birmingham and UAB alumna, Frances M. Owens taught English and social studies at Mountain Brook Junior High School. She is a member of the UAB National Alumni Society and remains a faithful supporter of many programs across the UAB campus. Mrs. Owens created this Scholarship to provide assistance and greater opportunity to those diagnosed with ADD/ADHD become educators, and thereby better serve and positively impact students in our K-12 school systems.

Criteria:

• Preference will be given to entering freshmen students with ADD/ADHD registered through UAB Disability Support Service.
• Recipients must demonstrate financial need as determined by the UAB Office of Student Financial Aid.
• Preference will be given to underrepresented, low-income and minority students.

The Tevendale Family Scholarship

Jackie and William Alan “Bill” Tevendale are long-time supporters of education and educational opportunities in the greater Birmingham area. Both remain active volunteers, and Mr. Tevendale was the first Alabamian recognized with the National Operation School Bell Award by the Assistance League. The entire Tevendale family equally values educational opportunities, and with this Scholarship intends to create opportunity for future educators who will, in turn, leave a positive impact on the community.

Criteria:
• Recipients must maintain a 3.0 GPA.
• Recipients must demonstrate financial need as determined by the UAB Office of Student Financial Aid.
• Preference will be given to first generation college students.
• Preference will be given to students who are active in their communities, including the UAB community.

School of Education Alumni Scholarship

This Scholarship is provided annually through the generosity of School of Education alumni and friends who contribute to the School’s Scholarship efforts and/or Area of Greatest Need.

Criteria:
• Recipients must maintain a 3.0 GPA.
• Preference will be given to those who show financial need as determined by UAB Office of Student Financial Aid.

Glenda R. Elliott Endowed Scholarship

The Glenda R. Elliott Endowed Scholarship was created by faculty in the Counselor Education Program in the School of Education and members of the UAB Zeta Chapter of Chi Sigma Iota in honor and tribute to her and her years of service to UAB. Dr. Elliott is a licensed professional counselor, certified counselor supervisor, and has more than 40 years of experience as a counselor educator. She retired from UAB in 1994, is adjunct faculty for the Counselor Education Program, and Associate Professor Emerita.

Criteria:
• Applicants must be enrolled in the counselor education program as graduate students.

The Joyce G. Sibley Educational Computing Award

Dr. Joyce Sibley and her husband Dr. William Sibley have long supported educational opportunities for students. Knowing that learners benefit greatly when using the right tools, Dr. Sibley wanted to put a computer into the hands of an outstanding future teacher. This Award provides a desktop, tablet, or other personal computer for a deserving student.

Criteria:
• Preference is given to students that do not own a computer.
• Applicants must be a junior or senior admitted to the teacher education program.
• In the absence of such applicants, students admitted to the Alternative Master’s Program may be considered.
• Recipients must maintain a 3.25 GPA.

Jack Tribble Scholarship

Mr. Jack Tribble was an ardent supporter of UAB and a long-time fan of football. Although Mr. Tribble did not have an opportunity himself to attend college, he had a strong desire to make a college education affordable and an option for worthy students. At his death, UAB learned of Mr. Tribble’s generous bequest meant to support students who need financial assistance and are physical education majors. Each year, the Kinesiology Program selects a student recipient who best exemplifies Mr. Tribble’s interests and passion.

Criteria:
• Recipients must be majoring in physical education.
• Preference will be given to student demonstrate financial need as determined by the UAB Office of Student Financial Aid.

School of Business

Accounting Advisory Council Scholarship: A scholarship(s) is awarded to a student with an accounting major with a 3.0/4.0 minimum GPA who is enrolled in or has completed AC300. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

Alabama Society of CPA’s Educational Foundation Scholarship: A scholarship, valued at $1,500, is awarded to full-time accounting major in the School of Business. The recipient must have completed AC 310, have a 3.0/4.0 GPA overall and in accounting. The recipient must have completed 60 hours of coursework and have completed AC 300. Need is considered. For information, contact the School of Business at (205) 934-8813.

American Society of Women Accountants: A scholarship, valued at $1,000, is awarded to a senior in accounting with at least a 3.0/4.0 GPA overall and in accounting. The recipient must have completed 60 hours of coursework and have completed AC 300. Need is considered. For information, contact the School of Business at (205) 934-8813.

Association of Certified Fraud Examiners (ACFE) Scholarship: Student must be enrolled or admitted to the School of Business and be an accounting major with an interest in forensic accounting. Recipient must demonstrate involvement in student or community activities and have a minimum 2.5/4.0 GPA. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

Barfield, Murphy, Shank & Smith Scholarship in Accounting: A scholarship, valued at $1,000, is awarded to a senior in Accounting who has an interest in public accounting and who is enrolled in or completed AC300. GPA is important. For further information, contact the School of Business at (205) 934-8813.

Becker CPA Review Scholarship: Free Becker CPA Review Course is awarded to a graduating senior planning a career in
public accounting. GPA is important. The Accounting Scholarship Committee must receive a letter of interest by February 1. The number of awards is variable. For further information, contact the School of Business at (205) 934-8813.

**Birmingham Chapter of the Alabama Society of CPA’s Scholarship:** A scholarship, valued at $2,000, is awarded to a full-time accounting major entering his/her senior year. Recipient must have earned and maintain a 3.0/4.0 GPA in all coursework. For further information, contact the School of Business at (205) 934-8813.

**Birmingham Chapter of the IMA Scholarship:** Two scholarships, valued at $2,500 each, are awarded to an undergraduate accounting major or a Master of Accounting student. Recipients must have a 3.0/4.0 GPA in their accounting coursework and overall. They should intend to pursue a career in managerial accounting and show an interest in attaining the CMA or CFM designation. For further information contact the School of Business at (205) 934-8813.

**John F. Breyer Endowed Scholarship:** A scholarship of variable value is awarded to a student enrolled or admitted to The School of Business with a 3.0/4.0 or better GPA. Financial need and academic promise are considered. For further information, contact the School of Business at (205) 934-8813.

**William D. Burg Memorial Scholarship:** In May 2006, Dr. William (Bill) Burg was tragically killed in a car accident. Family, students, and friends immediately established a memorial scholarship in his name because of the unique care and mentoring he provided to students. Gifts and pledges were sufficient to create an endowment for an annual scholarship to an IS student who exhibits character and show potential in IS. For further information, contact the School of Business at (205) 934-8813.

**CISCO Information Systems Endowed Scholarship in Business:** Must be currently enrolled in or admitted to the School of Business Department of Informational Systems. Applicants must have a 3.0 GPA. Students must demonstrate a commitment to community service. This scholarship is restricted to minorities (including minority female).

**Collat Scholars:** Twenty (20) renewable four year scholarships, valued at $5000 each, are available to freshmen and transfer students. Entering freshmen, who have selected a major in the School of Business, must have a minimum GPA of 3.25/4.0 and at least a 24 ACT score. Transfer students, who have selected a major in the School of Business, must have a minimum GPA of 3.0/4.0 in all college courses and have completed at least 24 semester hours of college credit. Preference will be given to students who bring diversity to the School of Business student body. For further information, contact the School of Business at (205)934-8813.

**Colonial Properties Trust Business Scholars Practicum:** A scholarship, valued at $10,000 plus a practicum, is awarded to a junior or senior majoring in finance. For further information, contact the School of Business at (205) 934-8813.

**Colonial Properties Trust Scholarship Program:** One annual scholarship, in the form of a rent-free, one-bedroom apartment for a full-time student in the School of Business for an entire calendar year, is awarded to a student with a major in Finance. For further information, contact the School of Business at (205) 934-8812. Deadline: February 1.

**Charles & Patsy Collat Endowed Scholarship in Industrial Distribution:** Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

**Computer Technology Solutions (CTS) Scholarship:** Scholarships, valued at $2,500, are awarded to students who major in Information Systems and who demonstrate capabilities and aptitude for systems development and emerging IT issues. CTS is one of Birmingham’s premier consulting firms for IT development and systems development. The number of awards is variable. For further information, contact the School of Business at (205) 934-8813.

**Cooper Industries Industrial Distribution Scholarship:** Scholarships of variable amounts are awarded to entering freshmen, transfer or currently enrolled students who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will also be considered for the scholarship.

**Tommie G. Cummings Endowed Scholarship in Accounting:** A scholarship of variable value is awarded to an entering freshman or currently enrolled student or MAC student who demonstrates solid academic performance or achievement. For further information, contact the School of Business at (205) 934-8813.

**Eaton Corporation Endowed Industrial Distribution Scholarship:** Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

**Eaton Corporation Endowed Industrial Distribution Scholarship:** Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

**Eaton Corporation Endowed Industrial Distribution Scholarship:** Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

**Ernst and Young/John L. Rhoads Scholarship in Accounting:** Two scholarships, of variable value, are awarded to either undergraduate accounting majors entering their senior year or accounting equivalent majors. The recipients must have a minimum 3.25/4.0 accounting GPA and minimum 3.0/4.0 overall GPA. Must
be involved in professional and other activities and have an interest in public accounting. Equivalent majors must have completed AC 310. For further information, contact the School of Business at (205) 934-8813.

Faculty Scholarships in Management: A scholarship, valued at $500, is awarded to a student majoring in Management. The recipient must have at least a 3.25/4.0 GPA overall and have taken between 60-90 semester hours of coursework. Previous recipients are not eligible to reapply. For further information, contact the School of Business at (205) 934-8813.

Fetherston Scholarship in Finance: A scholarship, valued at $1,500, is awarded to a currently enrolled or admitted finance major. The recipient must have at least a 3.0/4.0 GPA, demonstrate leadership, and be active in student activities. For further information, contact the School of Business at (205) 934-8813.

Roy S. Fogas Memorial Scholarship: At least one scholarship, valued at $1,000, is awarded annually to a currently enrolled UAB School of Business student entering his/her junior or senior year. Selection is based upon academic promise, leadership potential and financial need. Award is renewable so long as the recipient maintains a minimum overall GPA of 3.0/4.0 and an average 3.0/4.0 in his or her major. Number of awards is variable. For further information, contact the School of Business at (205) 934-8813.

Katherine Bridges Freeland Endowed Scholarship: A variable value scholarship is awarded to student enrolled or admitted to UAB. Recipient must have a major in FN or IS with a 3.0/4.0 or better GPA. Low income or minority given priority. For further information, contact the School of Business at (205) 934-8813.

Edward M. Friend III School of Business Endowed Scholarship: A variable value scholarship is awarded to a new or currently enrolled student in the School of Business. Applicants must have a 3.0/4.0 overall GPA. For further information, contact the School of Business at (205) 934-8813.

A.G. Gaston Endowed Memorial Scholarship: A scholarship is awarded to an African American student enrolling as a freshman or currently enrolled in the UAB School of Business. Recipient is eligible to re-apply in following years with total awards limited to no more than four years. Financial need and superior academic achievement are considered. For further information, contact the School of Business at (205) 934-8813.

GE Industrial Distribution Endowed Scholarship: Scholarship(s) is awarded to an entering freshman with an Industrial Distribution major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will also be considered for the scholarship. Recipients may re-apply in following years but will be limited to four academic years. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 975-5810 or (205) 934-8813.

Green and Gold Student Managed Investment Fund Scholarship: These scholarships are funded by earnings from the Green and Gold Student Managed Investment Fund and vary in amount according to fund performance. The scholarships are awarded to those students involved in the Green and Gold fund. For further information, contact the School of Business at (205) 934-8813.

Hackney Family Endowed Scholarship in Business: Preference given to entering freshman who demonstrate solid academic promise and have at least a 3.0 overall GPA.

Tommy and Anne Hagwood Endowed Scholarship in Commercial Real Estate: Must be a junior or senior currently enrolled or admitted to the UAB School of Business Finance Department with plans to pursue a career in commercial real estate. Must have a 3.25 GPA. Must also demonstrate a commitment to community service and exhibit outstanding involvement in extracurricular activities.

Robert E. and Diane M. Holmes Endowed Scholarship: A variable value scholarship is awarded to a new or currently enrolled student in the School of Business. Applicants must have a 3.0/4.0 overall GPA. For further information, contact the School of Business at (205) 934-8813.

Hubbell Foundation Industrial Distribution Scholarship: Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

Information Systems Advisory Scholarship: Council scholarships of variable amounts are awarded to entering freshmen, currently enrolled, or transfer students in the School of Business who are interested in the field of information systems. For further information, contact the School of Business at (205) 934-8813.

Institute of Internal Auditors/Debbie Tanju/UAB Scholarship: One scholarship, valued at $1,500, is awarded to an accounting major with an interest in internal auditing. GPA is important. For further information, contact the School of Business at (205) 934-8813.

Jackson Endowed Scholarship in Industrial Distribution: Scholarship(s) is awarded to a transfer or currently enrolled student majoring in Industrial Distribution. The recipient must complete a minimum of 24 hours during the academic year and maintain a 3.0/4.0 GPA. The recipient must show active participation in extracurricular and/or community service activities. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 975-5810 or (205) 934-8813.

Chris L. Jones Industrial Distribution Scholarship: Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.
L. Paul Kassouf & Co. Endowed Scholarship: Two scholarships with variable values are awarded to rising seniors in accounting. Recipients must earn a minimum of 27 semester hours in the academic year, have completed AC 300 and have demonstrated professional awareness and involvement. Recipients must have a minimum overall and accounting 3.0/4.0 GPA. Need is considered if there are equally deserving students. For further information, contact the School of Business at (205) 934-8813.

L. Paul Kassouf Forensic Accounting Scholarship: A scholarship of variable value is awarded to a junior or senior accounting major in the School of Business with an interest in forensic accounting. Recipient must have a minimum 3.0/4.0 GPA. Need is considered if there are equally deserving students. For further information, contact the School of Business at (205) 934-8813.

L. Paul Kassouf Endowed Industrial Distribution Scholarship: Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

Kinder Morgan Excellence in Accounting Scholarship: A scholarship, valued at $3,500, is awarded to a minority accounting undergraduate, graduate, or equivalent student. Recipient must have and maintain a 3.0/4.0 GPA and have a year of coursework remaining. For further information, contact the School of Business at (205) 934-8813.

Legrand Endowed Industrial Distribution Scholarship: Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

Debra Linton Scholarship: A scholarship, valued at $2,500, is awarded to an entering freshman, currently enrolled student, or transfer student majoring in accounting with an overall GPA of 3.0/4.0. For further information, contact the School of Business at (205) 934-8813.

MBA Alumni Association Graduate Support Fund: A scholarship of variable value is awarded to a student pursuing an MBA with at least a 3.5/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

J. Stanley Mackin Scholarship in Finance: Scholarships with variable values are awarded to finance majors within the School of Business. The recipients must have a 2.5/4.0 or higher overall GPA and must demonstrate financial need. Recipients must be involved in student activities, show leadership potential and display excellent interpersonal and social skills. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

L. Paul Kassouf & Co. Endowed Memorial Scholarship in Accounting: A scholarship of variable value is awarded to a currently enrolled or entering freshman accounting major. The recipient should demonstrate solid academic promise or achievement. For further information, contact the School of Business at (205) 934-8813.

Katherine L. McCarl Maisel Memorial Scholarship: A scholarship of variable value is awarded to a senior student majoring in Accounting or Information Systems (with an interest in auditing or computer auditing). Applicants must have a 3.0/4.0 GPA in any completed coursework and demonstrate strong leadership skills and human management skills. It is preferred that accounting majors have completed AC 300, and all applicants must be courageous and positive in their attitude toward life. For further information, contact the School of Business at (205) 934-8813.

NABA/Murat Tanju Scholarship: A scholarship, valued at $1,000, is awarded to an accounting major who is a member of NABA. For further information, contact the School of Business at (205) 934-8813.

NABA President’s Scholarship: A scholarship, valued at $500, is awarded to the NABA President. For further information, contact the School of Business at (205) 934-8813.

M. Gene Newport Business Scholarship Endowment: A scholarship, valued at $1,000, is awarded to a regular, full-time entering freshman or transfer student in the School of Business for one academic year and is renewable for up to three consecutive years. The recipient must complete a minimum of 27 hours in one academic year and maintain a 3.0/4.0 GPA. For further information, contact the School of Business at (205) 934-8813.

O’Neal Steel Industrial Distribution Scholarship: Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extra-curricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

OSRAM Sylvania Scholarship: Scholarship(s) is awarded to an entering freshman or currently enrolled student with an Industrial Distribution major. High school GPA, ACT, or SAT scores, participation in extracurricular activities and career goals will be considered. Currently enrolled ID students must maintain a 3.0/4.0 GPA, be committed to the degree requirements of the ID program and participate in community service. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 975-5810.

Pearce, Bevill, Leesburg & Moore Scholarship: A scholarship, valued at $2,000, is awarded to either an undergraduate accounting major entering his/her senior year, an accounting equivalent major, or a Master of Accounting student. Recipient must have a minimum 3.25/4.0 accounting GPA, have completed AC 310, and be actively involved in at least one professional organization. Need is considered if there are equally deserving students. For further information, contact the School of Business at (205) 934-8813.
Protective Life Corporation/NABA Scholarship: A scholarship, valued at $1,500, is awarded to a minority accounting major in the School of Business. The recipient must be a full-time student, must have completed AC 310, have a 3.0/4.0 GPA overall and in all accounting courses completed, and have at least one full year left in school (4th or 5th year). For further information, contact the School of Business at (205) 934-8813.

Phelps Industrial Distribution Scholarship: Annual scholarships are awarded to entering freshman, transfer or currently enrolled student who designate Industrial Distribution as their major. High school GPA, ACT or SAT scores, participation in extracurricular activities, financial need, and career goals will be considered. Currently enrolled ID students with good academic standing, commitment to completing degree requirements in ID, participation in extracurricular activities and community service will be considered for the scholarship.

Pizitz Endowed Scholarship: Scholarships, valued at $2,500 for four years, are awarded to at least one entering freshman that intends to pursue a degree in the UAB School of Business, earns at least 27 hours per academic year and maintains a 3.0/4.0 GPA. Selection is based on grades, ACT or SAT scores, extracurricular activities and career goals. The number of awards is variable. For further information, contact the School of Business at (205) 934-8813.

Ollie S. Powers Endowed Scholarship in Accounting: A scholarship of a variable amount is awarded to an entering freshman or currently enrolled student or MAC student with an accounting major in the School of Business who demonstrates solid academic promise or achievement. For further information, contact the School of Business at (205) 934-8813.

PricewaterhouseCoopers Scholarship/Jimmy Bent Memorial Scholarship: A scholarship of variable value is awarded to a currently enrolled student with an accounting major or a Master of Accounting student. Recipient must have and maintain a 3.0/4.0 GPA and preferably have completed AC 300. For further information, contact the School of Business at (205) 934-8813.

PricewaterhouseCoopers Recruiting Scholarship: A scholarship, valued at $2,000, is awarded to an entering freshman who has demonstrated academic excellence with a GPA of at least a 3.0/4.0 and will pursue a degree in accounting. For further information, contact the School of Business at (205) 934-8813.

Project Management Institute Scholarship: The Birmingham Chapter of PMI provides scholarships to students who major in IS and who demonstrate skills and abilities in project management. The funds are generated through the UAB IS/PMI Project Management Certificate Program, which is periodically offered to the public. For further information, contact the School of Business at (205) 934-8813.

Protective Life Corporation/NABA Scholarship: A scholarship, valued at $1,500, is awarded annually to an undergraduate accounting major at any level in the School of Business with a minimum 3.0/4.0 GPA in his/her accounting coursework. The recipient must have completed at least one semester at UAB prior to receiving the scholarship and be an active member and heavily involved in the UAB student chapter of the National Association of Black Accountants. The recipient will be eligible to intern at Protective Life Corporation based on availability of an opportunity and the company interview process. For further information, contact the School of Business at (205) 934-8813.

Protective Life Corporation Information Systems Scholarship: A scholarship, valued at $2,500, is awarded to student with an information systems major in School of Business with a minimum 2.5/4.0 GPA. Must be a junior or senior. Internship is encouraged. Low income and minority encouraged to apply/given priority. For further information, contact the School of Business at (205) 934-8813.

Regions Bank Endowed Scholarship in Business: Scholarships are awarded to students currently enrolled as finance majors in the School of Business. Selection is based upon academic promise, leadership potential, merit and high moral character. Applicants must have and maintain a 3.0/4.0 GPA. Recipients are eligible to reapply in subsequent years as long as they continue to meet the requirements. The value of the award and the number of awards are variable. For further information, contact the School of Business at 934-8813.

Regions IS Scholars Practicum: A scholarship, valued at $4,000 plus $18,000 for an on-site practicum, is awarded to a student with an information systems major in the School of Business. Must be a junior or senior with a 3.0/4.0 GPA or better. For further information, contact the School of Business at (205) 934-8813.

Roberta M. and John L. Rhoads Accounting Scholarship: Scholarships of variable value are awarded to rising seniors majoring in accounting. Recipients must have at least a 3.25/4.0 accounting GPA and a minimum 3.0/4.0 overall GPA. Financial need, extracurricular, civic and professional activities will be considered. The recipient must have completed AC 310. For further information, contact the School of Business at (205) 934-8813.

Rime Endowed Scholarship: A scholarship, valued at $2,500 for four years, is awarded to an entering freshman that intends to pursue a degree in the UAB School of Business. Recipient must earn at least 27 hours per academic year and maintain a 3.0/4.0 GPA. Selection is based upon grades, ACT or SAT scores, extracurricular activities and career goals. For further information, contact the School of Business at (205) 934-8813.

Harvey C. Smith Scholarship in Marketing, presented by the AMA, BI Chapter: A scholarship, valued at $500, is awarded to a junior or senior level student with a designated major in Marketing. Recipient must have a 3.2/4.0 overall GPA. Leadership and membership in the UAB chapter of AMA is considered.

Society for Information Management (SIM) Scholarship: Scholarships are awarded to entering freshmen, currently enrolled students, or transfer students in the School of Business with an interest in information systems as a major. The value of the award and the number of awards are variable. For further information, contact the School of Business at (205) 934-8813.

South Birmingham Chapter of Institute of Management Accountants Scholarship: A scholarship valued at $1,000 is awarded to an undergraduate student majoring in accounting with an interest in managerial accounting or financial management. A minimum 3.0/4.0 GPA is required. For further information, contact the School of Business at (205) 934-8813.
The UAB School of Engineering offers the following scholarships to incoming freshman for the 2015-2016 academic year. In-state students must be admitted by December 1, 2015 and out-of-state students must be admitted by May 1, 2016 in order to be considered.

**IN STATE Amount of Scholarship**

- 33-36 ACT, 3.5 or Higher GPA $2,500
- 30-32 ACT, 3.5 or Higher GPA $2,500
- 27-29 ACT, 3.5 or Higher GPA $2,000
- 25 or 26 ACT, 3.5 or Higher GPA $1,000

**OUT OF STATE Amount of Scholarship**

- 33-36 ACT, 3.5 or Higher GPA $5,000
- 30-32 ACT, 3.5 or Higher GPA $5,000
- 27-29 ACT, 3.5 or Higher GPA $3,000
- 25 or 26 ACT, 3.5 or Higher GPA $2,000

Students who have an ACT of 30 or higher, but have a GPA of 3.49 or lower, will be considered for scholarships on an individual basis.

Scholarship amounts and eligibility criteria are subject to change in future years.

**Additional scholarships available to currently enrolled or soon-to-be enrolled, UAB engineering students:**

**Dean’s Scholarship**
Amount: $250/$100 Per Student

This scholarship is awarded to those students who remain on the Dean’s or Presidential Honors list for both the fall and spring semester in an academic year. For students who receive Presidential Honors for both of these terms, a $250 scholarship will be awarded at the beginning of the following fall semester. For students who receive Presidential Honors and/or are on the Dean’s list, a $100 scholarship will be awarded at the beginning of the following fall semester. The dean of the School of Engineering will also host an event at the beginning of the fall semester where he will speak and they will have an opportunity to congregate and ask questions about the upcoming year.

**Mentor Scholarships**
Amount: $1,200 Per Academic Year ($600 per semester)

The School of Engineering Mentor Program offers scholarships to students that apply, are selected, and commit to offering 50 hours of mentoring to their fellow engineering students each semester. Students that would like to be considered for a mentor position should have at least a 3.0 GPA in all coursework and be friendly and approachable.

**Dupuis Leadership Scholarship**
Amount: $1,500 Per Student

School of Engineering Dupuis Leadership Scholars have the opportunity to impact the future of the School of Engineering, while receiving a $1,500 scholarship. Specifically, the Leadership Scholars play a major role in several student recruiting initiatives,
including making brief, personal presentations to high school students and parents during UAB Days, coordinating and serving as tour guides for groups taking part in scheduled School of Engineering tours, and participating in a limited number of additional recruiting events.

**Dupuis Leadership Scholars** must be a academically successful rising junior or senior with at least 30 hours of credit completed at UAB and must take initiative, possess organizational skills, present themselves well, and be personable and friendly. To apply for a **Dupuis Leadership Scholar** position, students must submit their résumé, including all college activities. From these submissions, the Leadership Scholars committee will select applicants for interviews. Final selections will be made following interviews.

**Transfer Scholarship**

**Amount:** $1,000

To be considered for this scholarship, applicants must have a minimum GPA of 3.5 and have earned at least 45 semester hours of academic coursework relevant to an engineering degree, including successful completion of Calculus 2. International students, part-time students, and students with previous coursework from another 4-year institution will not be considered.

**Information about the scholarships below will be sent to eligible students by email:**

- Adam Telle Memorial Endowed Award Scholarship in Mechanical Engineering
- Clayton V. Reuse/Birmingham ASHRAE Endowed Scholarship
- Leah McCraney Memorial Endowed Scholarship in Advanced Safety Engineering and Management

For more information about the following awards, engineering students should contact the UAB National Alumni Society:

- Mobolaji O. Kukoyi, P.E. UAB National Alumni Society Scholar Award
- Dr. Ray Watts Textbook Scholarship UAB National Alumni Society Scholar Award
- UAB National Alumni Society Brandon Keith Jacobs Memorial Scholarship

**School of Health Professions**

**Dean’s Merit Scholarship:** These scholarships are used to recruit or retain outstanding students enrolled in SHP academic programs. Selection is based upon academic achievement, including but not limited to, grade point average and standardized test scores. Selection of awardees is made by SHP academic programs.

**Dean’s Diversity Scholarship:** These scholarships are used to recruit or retain students from under-represented groups who will enhance the diversity of SHP academic programs, and consequently the diversity of the health professions workforce. Recipients must meet the University’s definition of under-represented groups. Selection of awardees is made by SHP academic programs.

**SHP Scholarship:** These scholarships are funded through a combination of allocated budget monies from the Dean and proceeds from the SHP Endowed Scholarship fund, which was established in 1988 through gifts from faculty, staff, and friends of the School. These scholarships are used to recruit or retain students who will enhance the diversity of SHP programs or who have outstanding academic credentials, including but not limited to, grade point average and standardized test scores.

Selection of awardees is made by the SHP Scholarship Committee; applications are submitted by SHP program directors on behalf of qualified students. The number and amount of awards are determined by the Scholarship Committee based upon available funds.

**Lettie Pate Whitehead Foundation Scholarship:** These scholarships are made possible by an annual grant from the Lettie Pate Whitehead Foundation based in Atlanta, Georgia. The Whitehead family was the first to secure an exclusive contract to bottle and sell Coca-Cola throughout most of the United States. Applicants must be young women from the Southeastern states who are pursuing an undergraduate or graduate degree in one of the SHP programs and who demonstrate financial need. Selection is made by the SHP Office of Student Recruitment, Engagement, and Success. For more information contact the Assistant Dean for Student Affairs at (205) 934-4195.

**Ethel M. and Jessie D. Smith Endowed Nursing and Allied Health Scholarship:** This endowment provides scholarships for both the School of Health Professions and the School of Nursing. SHP applicants must be admitted to or enrolled in a SHP baccalaureate program and be a resident of the state of Alabama at the time of enrollment. Selection is made by the SHP Office of Student Recruitment, Engagement, and Success. For more information contact the Assistant Dean for Student Affairs at (205) 934-4195.

**Matthew F. McNulty, Jr., Health Services Emergency Loan:** Students enrolled in the professional phase of programs in the School of Health Professions are eligible to apply for this low-interest loan. The fund was originally established by the University Hospital Auxiliary, and its purpose is to provide support for students needing emergency assistance. The amount of the loan will depend upon the student’s needs. Inquiries should be directed to the SHP Office of Student Recruitment, Engagement, and Success. For more information contact the Assistant Dean for Student Affairs at (205) 934-4195.

**Patricia Ann Amos Endowed Scholarship (Clinical Laboratory Sciences):** The Patricia Ann Amos Scholarship endowment was established in 2002 through gifts given by Ms. Amos and other donors. Ms. Amos retired from UAB in 1988 after 28 years of service as a medical technology faculty member, department chair, and assistant dean. Applicants must be accepted into the professional phase of the Clinical Laboratory Sciences Program and have satisfactory academic performance. Selection is made by a committee comprised of the Clinical Laboratory Sciences faculty. The number and amount of the awards given each year is determined by the committee based upon the availability of funds.

**Cooperative Clinical Laboratories of Huntsville Endowed Scholarship/Loan (Clinical Laboratory Sciences):** The CCLH Scholarship/Loan Fund endowment was created in 1991 by the Huntsville Cooperative School of Medical Technology, Huntsville Hospital, Crestwood Hospital, Huntsville Diagnostic Laboratory and Humana Hospital Huntsville. Applicants must be full-time students in the UAB Clinical Laboratory Sciences Program with preference given to those who reside in northern Alabama or who wish to obtain employment as a clinical laboratory scientist at a Huntsville institution. Scholarship awards are an amount equal to 25% of UAB tuition and fees; loan recipients may receive an amount equal to the total of tuition and fees for the duration of the program. The loan is repay subsequent to graduation; however, recipients who are employed as clinical laboratory scientists for one year at a designated Huntsville institution are forgiven the total. Selection is
made by a committee comprised of the CCLH representatives and a UAB Clinical Laboratory Sciences faculty member.

Elbert and Panzie Purser Scholarship (Physician Assistant): The Purser Scholarship was established in 1979 and subsequently endowed in 1983 through a gift from the Elbert H. Purser Trust. Applicants must be admitted to or enrolled in the UAB Physician Assistant program and must be natives of the state of Alabama. Selection is made by a committee of the Physician Assistant program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Earl W. Hall Loan (Physician Assistant): Seniors in the Physician Assistant Program with emergency financial needs are eligible to apply for this low-interest loan. Inquiries should be directed to the Director, Physician Assistant Program.

Henry L. Laws Scholarship Loan (Physician Assistant): Students with financial need who are enrolled in or accepted for enrollment in the Physician Assistant Program may apply for this loan. Inquiries should be directed to the Director, Physician Assistant Program.

Alabama HIMSS President’s Endowed Award in Health Informatics: The Alabama HIMSS Endowed Award Fund was established in 2004 by a generous gift from the Alabama chapter of the Healthcare Information and Management Systems Society to be awarded annually to recognize and provide financial support to an outstanding senior student enrolled in the UAB Master of Science in Health Informatics program as determined by a committee of the MSHI faculty and the President of Alabama HIMSS or his or her chosen representative.

Alabama Hospital Association Scholarship (Health Administration): This scholarship is sponsored annually by a gift from the Alabama Hospital Association for a student admitted to or enrolled in the UAB Master of Science in Health Administration program, based upon criteria established by the Association. Eligible students are identified by the MSHA program faculty; selection is made by the Alabama Hospital Association leadership in consultation with the faculty.

Robert C. Chapman Endowed Scholarship (Health Administration): The Robert C. Chapman Endowed Scholarship was established in 2003 through a generous gift from Robert C. (Bob) Chapman, an alumnus of the M.S. in Health Administration program and a long-time supporter and preceptor for the program. Applicants must be enrolled in or admitted to the MSHA program, demonstrate solid academic promise, financial need, leadership potential and high ethical standards. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Michael E. Garrigan Endowed Scholarship (Health Administration): The Michael E. Garrigan Endowed Scholarship was established in 2000 by a generous gift from Mike Garrigan, an alumnus of the MSHA program and long-time supporter and preceptor for the program. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Health Services Administration Endowed Scholarship (Health Administration): This scholarship was established in 2000 through the generosity of an anonymous donor. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

The Richard A. Lind Endowed Scholarship Fund (Health Administration): This scholarship endowment was established in 2000 by a very generous gift from MSHA alumnus and healthcare entrepreneur Michael E. Stephens in honor of his friend and fellow alumnus, Richard A. Lind. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Medical Group Management Association Endowed Scholarship (Health Administration): The MGMA Scholarship Endowment was established in 1987 through gifts from the Medical Group Management Association of Alabama and the MGMA Birmingham Chapter to support students who are committed to entering the profession of medical practice management. Applicants must be residents of the state of Alabama, have completed two terms of study in the MSHA program and demonstrate academic promise as well as an interest in the area of medical group practice management. Selection is made by a committee of the MSHA program faculty in consultation with the immediate past presidents of the Birmingham and Alabama chapters of MGMA; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

J. Kenneth Roan Memorial Endowed Scholarship (Health Administration): This scholarship endowment was established in 1985 in memory of J. Kenneth Roan, a native of Decatur, Alabama and a pioneer in the field of psychiatric care facilities. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Preference is given to students interested in pursuing a career in the administration of mental health facilities. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Scott Braxton Ryland Memorial Endowed Scholarship (Health Administration): The Scott Ryland Memorial Scholarship endowment was established in 2004 through gifts made by family, friends, and colleagues of Mr. Ryland, an alumnus of the MSHA program and a student in the Administration-Health Services Ph.D. program at the time of his death at age 33. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Jon E. Vice Scholarship (Health Administration): This scholarship was established in 2005 in honor of MSHA alumnus Jon E. Vice and in recognition of his financial support and volunteer leadership for both the Health Administration program. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.
Department of Health Services Administration and the School of Health Professions. The scholarship is funded by a portion of the proceeds from the Health Services Administration 25th Anniversary Scholarship endowment, which was established through a fund-raising drive chaired by Mr. Vice. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by the committee based upon the availability of funds; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Robert J. Zasa Endowed Scholarship (Health Administration): The Robert J. Zasa Scholarship endowment was established in 2000 through a generous gift by Mr. Zasa, an alumnus of the MSHA program who has provided long-time support to the program as a student mentor and guest lecturer. Applicants must be enrolled in or admitted to the MSHA program and demonstrate solid academic promise as well as financial need. Selection is made by a committee of the MSHA program faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

The Alabama Power Service Organization/Glenda Harris Scholarship (Dietetic Internship/Nutrition Sciences): This scholarship is sponsored by the Alabama Power Service Organization to honor Glenda Harris and to promote educational opportunities to deserving young adults in the Department of Nutrition Sciences. Selection is made by the Nutrition Sciences faculty; the number and amount of the awards are subject to the availability of funds.

Rebecca L. Bradley Endowed Scholarship (Dietetic Internship): This scholarship endowment was established in 2005 in honor of Rebecca L. Bradley for her many years of dedicated service as a faculty member and director of the UAB Dietetic Internship program, a position she retained until her retirement in 1998. Applicants must be admitted to or enrolled in the UAB Dietetic Internship Program. Selection is made by the Dietetic Intern program faculty; the number and amount of the awards are determined annually by the faculty based upon the availability of funds.

Carrol Brewster Craig Endowed Scholarship (Dietetic Internship/Nutrition Sciences): The Carol Brewster Craig Endowed Scholarship was established in 1992 by gifts made in honor of Ms. Craig, professor and director of the Division of Human Nutrition and Dietetics until her retirement in 1998. Applicants must be admitted to or enrolled in the Dietetic Internship program at UAB. Applicants must be admitted to or enrolled in the professional phase of either the Dietetic Internship or the M.S. Nutrition Sciences degree programs and demonstrate solid academic promise. Selection of the recipients is made by a departmental scholarship committee; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Howerde E. Sauberlich Endowed Award for Excellence in Nutrition Sciences Research: The Sauberlich Award endowment was established in 2003 in memory of Dr. Howerde E. Sauberlich, longtime nutrition sciences faculty member and a pioneer in the study of macro- and micronutrients, through a generous gift from his wife, Irene, along with gifts from other donors. The award is used to recognize and financially support students for superior performance in research of an area of the nutrition sciences. Selection is made by departmental committees for the Clinical Nutrition master’s program and the Nutrition Sciences Ph.D. program; the number and amount of the awards are determined by the committees based upon the availability of funds.

Caroline Amari Endowed Scholarship (Occupational Therapy): The Caroline “Cat” Amari Endowed Scholarship was established in 2006 in honor of Cat Amari for her many years of service as a faculty member, program director and mentor to many OT students. It is the first endowed scholarship to have been established for Occupational Therapy students at UAB. Selection is made by a committee of the Department of Occupational Therapy faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Elizabeth Davis Scholarship (Occupational Therapy): The Elizabeth Davis Scholarship is made possible by contributions made by family and friends of Ms. Davis in appreciation for care she received from an occupational therapist. Selection is made by a committee of the Department of Occupational Therapy faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Occupational Therapy Memorial Scholarship (Occupational Therapy): The OT Memorial Scholarship is funded through contributions by alumni, faculty, and friends of the program wishing to honor their loved ones. Selection is made by a committee of the Department of Occupational Therapy faculty; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Randi Gilner Emergency Loan (Physical Therapy): This no-interest loan may be awarded to students enrolled in the Department of Physical Therapy. Inquiries should be directed to the Chair of the Physical Therapy Department.

HEALTHSOUTH Rehabilitation Corporation Endowed Scholarship (Physical Therapy): This scholarship endowment was established in 1991 by a gift from HealthSouth Rehabilitation Corporation. Applicants must be Alabama residents, must be enrolled in the Doctor of Physical Therapy program at UAB and should demonstrate solid academic progress. Selection is made by the Department of Physical Therapy Financial Aid Committee; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

Shirley Shaddeau Memorial Endowed Scholarship (Physical Therapy): The Shirley Shaddeau Memorial Scholarship endowment was established through a generous gift from Sue Shaddeau to honor the memory of her sister, Shirley Shaddeau, and her dedication to the profession of physical therapy. The scholarship has received additional contributions from family, alumni and friends. Applicants must be a resident of Alabama, must be enrolled in the Doctor of Physical Therapy program at UAB and should demonstrate solid academic progress, financial need, and be of high moral character. Selection is made by the Department of Physical Therapy Financial Aid Committee; the number and amount of the annual awards are determined by the committee based upon the availability of funds.

For additional information about SHP scholarships, please contact: Katie Adams • katiedav@uab.edu • 966-5469

School of Nursing

The School of Nursing at UAB has an excellent scholarship program in which many students participate. Because of the size of some of these scholarship endowments, the school is able to award multiple students scholarships from the same endowed fund. The scholarship application process is simple. One application is needed to be considered for all undergraduate or graduate scholarships. Please call the School of Nursing Office of Student Affairs at 205-934-5483 or visit the website at:
http://www.uab.edu/nursing/home/son-scholarships for complete details regarding eligibility and application deadlines.

The following is a listing of scholarships at the University of Alabama School of Nursing at UAB.

Alice L. McCallum Endowed Nursing Scholarship: Established by family and friends of Dr. Charles A. McCallum, Jr., and the late Alice L. McCallum. Criteria: admission to or current full-time enrollment in the School of Nursing, a cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to first year students enrolled in the undergraduate or graduate pre-licensure programs.

Barbara and Emmet O’Neal Endowed Nursing Scholarship: Established with gifts from friends of Barbara O’Neal and the late Emmet O’Neal. Mr. O’Neal left a legacy as a generous benefactor and supporter of the people of Birmingham, and Mrs. O’Neal is a member of the School of Nursing’s Board of Visitors. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least a 3.2 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to students who have a desire to pursue a career in community-based nursing.

Benjamin and Roberta Russell Nursing Scholarship: Established with funds received from the Benjamin and Roberta Russell Foundation. Criteria: admission to or current full-time enrollment in study leading to a degree in nursing at the University of Alabama School of Nursing at UAB, cumulative grade point average of at least a 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to those who are residents of Alabama or who express a desire to live and work in an underserved area of the state following graduation.

Board of Visitors Endowed Veterans Nursing Care Scholarship: Established by the UAB School of Nursing Board of Visitors with proceeds from the 2009 MASH fundraising event. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing at UAB, a cumulative grade point average of at least 3.0 on a 4.0 scale, and applicants must demonstrate financial need as determined by the UAB Office of Financial Aid. First preference will be given to students who demonstrate an interest in and commitment to providing nursing care for veterans and their families.

Board of Visitors Endowed Nursing Scholarship: Established with funds raised by the UAB School of Nursing Board of Visitors. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing at UAB, and a cumulative grade point average of at least 3.0 on a 4.0 scale. Preference will be given to those who are residents of Alabama, and who express a desire to live and work in Alabama following graduation.

Board of Visitors Endowed Scholarship in Doctoral Nursing: Established with funds raised by the UAB School of Nursing Board of Visitors to support deserving doctoral nursing students. Criteria: Must be currently enrolled in or admitted to a doctoral degree-granting program in the School of Nursing and have earned at least an overall 3.0 grade point average in coursework completed prior to the time of application.

Brock Family Endowed Nursing Scholarship: The Harry B. and Jane H. Brock Foundation has made generous gifts to create an endowed scholarship at the School of Nursing, in recognition of the nursing career of their daughter, Barrett Brock MacKay (MSN 1979), who is a member of the School’s Board of Visitors. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Applicants must have at least an overall 2.8 grade point average on a 4.0 scale at the time of the scholarship application. Preference will be given to applicants that demonstrate financial need as determined by the UAB Office of Financial Aid.

Carolyn Farrior Boone Endowed Nursing Scholarship: Established by Mr. and Mrs. James B. Boone, Jr., of Tuscaloosa, Alabama. Mr. Boone serves as Chairman of the Board and Director of Boone Newspapers, Inc. His wife, Carolyn, is a retired nurse and a member of the UAB School of Nursing Board of Visitors. Criteria: admission to or current full-time enrollment in the School of Nursing. Applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Catherine S. and Lee J. Styslinger, Jr., Endowed Nursing Scholarship: Established by Catherine and Lee Styslinger, Jr., well known residents of Birmingham and throughout the state of Alabama for their leadership and generous philanthropic support. Catherine is member of the UAB School of Nursing Board of Visitors. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to students enrolled in the undergraduate and/or graduate pre-licensure programs.

Della and John Robert Endowed Nursing Scholarship: Established with funds from the Della and John Robert Trust to support students seeking a professional nursing career. Criteria: current full-time enrollment in study leading to a degree in nursing at the UAB School of Nursing and a cumulative grade point average of at least 3.0. Preference will be given to those for whom the decision to return to school is a second life choice; or who may have pursued a degree in nursing earlier in life and been forced by circumstances to stop that education; or who are returning to school in order to seek an advanced degree in nursing.

Dorothy G. Sterne Nursing Scholarship Fund: Established with funds received from the Dorothy Sterne estate through the provisions of her will. Preference will be given to Calhoun County, Alabama, residents enrolled full-time in study leading to the BSN degree at the UAB School of Nursing.

Dr. Charles E. Flowers, Jr. Endowed Nursing Scholarship: Established by Dr. Flowers’ widow, Dr. Juannetta S. Flowers, and family, colleagues and friends of Dr. Charles E. Flowers, this scholarship was created to assist deserving students who are enrolled in the UAB School of Nursing. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Applicants should demonstrate solid academic promise and have earned a cumulative 2.8 (on a 4.0 scale) grade point average in coursework prior to the time of application.

Dr. Margaret Millsap Memorial Endowed Award in Nursing: Established by alumni of the UAB School of Nursing and members of the Nu Chapter of Sigma Theta Tau International, the Honor Society of Nursing, and colleagues of Dr. Margaret Israel Millsap to provide financial support for deserving advanced practice nursing students. Criteria: must be enrolled in, or admitted to, a degree-granting program in the School of Nursing. Both full-time and part-time students are eligible and should have earned at least an overall 3.0 grade point average in foundational and overall coursework completed prior to the time of application.
Dr. Paul W. Scokel III and Mary Lou Scokel and William A. Honeycutt and Christine R. Honeycutt Endowed Scholarship: Established by Mr. and Mrs. Paul S. Scokel in honor and memory of their parents Dr. Paul W. Scokel III and Mary Lou Scokel and William A. Honeycutt and Christine R. Honeycutt. Criteria: must demonstrate financial need as defined by the UAB Financial Aid Office, earned at least an overall 3.0 grade point average, and be currently enrolled in, or admitted to a degree-granting program at UAB School of Nursing.

Eileen Marie Mahan Endowed Scholarship in Nursing Scholarship: Established in memory of Eileen Marie Mahan (MSN 1980), who died in an automobile accident. This memorial scholarship is to enable deserving graduate students in the School of Nursing. Criteria: admission to or current full-time enrollment in a degree-seeking graduate program at the UAB School of Nursing, a cumulative grade point average of 3.0 out of 4.0, and must demonstrate financial need as defined by the UAB Office of Financial Aid.

Eileen S. Meyer Endowed Nursing Scholarship: Established by Dr. Bruce Burns in honor of his wife, Eileen S. Meyer, CRNP as a surprise for her 40th birthday. Criteria: Must be currently enrolled in, or admitted to, a degree-granting program in the School of Nursing and should demonstrate solid academic promise in foundational and overall coursework completed prior to the time of application. Applicants must demonstrate excellent skills in physical diagnosis, as attested to by letters of recommendation from faculty. Applicants must demonstrate excellent skills in communication and interpersonal relationships as attested to by letters of recommendation from faculty and I or employers. Students do not have to qualify for federal assistance to be considered for this award.

Elizabeth Jane Harper Memorial Scholarship: Established by family members as a memorial to Elizabeth Jane Harper, who was a student at the UAB School of Nursing. Criteria: must be currently enrolled as a full-time student in study leading to the BSN degree at the UAB School of Nursing, be in good standing, and show financial need as defined by the UAB Office of Financial Aid.

Elizabeth Stullenbarger Endowed Nursing Scholarship: Established by UAB School of Nursing Professor Emerita, Dr. Elizabeth Stullenbarger together with other friends of the School of Nursing to provide financial support to deserving nursing students. Criteria: Must be currently enrolled in, or admitted to, a degree-granting program in the School of Nursing, with first preference given to full-time students in the undergraduate and graduate pre-licensure programs. Applicants should have earned at least an overall 3.0 grade point average in foundational and overall coursework completed prior to the time of application.

Dr. Elwynn “Chick” Hale Endowed Nursing Scholarship: Established by family and friends of the late Dr. Elwynn “Chick” Hale in her memory to assist deserving nursing students at the UAB School of Nursing. An alumna of the School, Dr. Hale was also a beloved faculty member from 1974 to 1990, and served as a member of the School’s Board of Visitors until her death. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, and a cumulative grade point average of 3.0 on a 4.0 scale. Preference given to students who are citizens of Alabama or who express a desire to work in Alabama following graduation.

Emmet and Mary Anne O’Neal Endowed Nursing Scholarship: Established with gifts from family and friends of the late Mary Anne and Emmet O’Neal, who, during their lifetime, set an example of grace and benevolence for their family and for the Birmingham community. Criteria: admission to or current full-time enrollment in study leading to a degree in nursing at the UAB School of Nursing, cumulative grade point average of at least a 3.0 on a 4.0 scale, and a demonstrated financial need as determined by the UAB Office of Student Financial Aid.

Ethel M. and Jesse D. Smith Nursing and Allied Health Scholarship: Established by Dr. Bettye Jane Smith as a memorial to her parents, Ethel McCarty Smith and Jesse Doswell Smith. Criteria: must demonstrate financial need as defined by the UAB Financial Aid Office, reside in the state of Alabama, have a cumulative grade point average of at least a 3.0 on a 4.0 scale, and be admitted to or enrolled in full-time study leading to the BSN degree at the UAB School of Nursing.

Fay B. Ireland Endowed Nursing Scholarship: Established by Mrs. William R. Ireland, Sr., to support native Alabama students pursuing a degree at the UAB School of Nursing. Criteria: applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Florence A. Hixson Endowed Nursing Scholarship: Established by family, friends, and colleagues of Dr. Florence Alberta Hixson, the first Dean of the UAB School of Nursing. Criteria: current full-time enrollment in study leading to an advanced degree at the UAB School of Nursing and a cumulative grade point average of at least 3.0 on a 4.0 scale.

Francis S. Falkenburg Endowed Nursing Scholarship: Established by the family of Francis S. Falkenburg, former member of the State Legislature of Alabama and lobbyist for UAB and the Alabama State Nurses Association. Criteria: admission to or current full-time enrollment in the undergraduate program in the School of Nursing and demonstrate financial need as determine by the family of Gladys Farmer Colvin, who was a nurse for many years at the Jefferson County Department of Public Health. Criteria: admission to or current full-time enrollment in the PhD program in the UAB School of Nursing and have a cumulative grade point average of 3.0 or above on a 4.0 scale.

Governers Lurleen B. and George C. Wallace Memorial Fund: Established by James T. Parsons and his late wife, Bobbie Parsons, to honor her parents, Governor Lurleen Burns Wallace and Governor George Corley Wallace. Bobbie served as a member of the UAB School of Nursing Board of Visitors for 18 years. Gov. Lurleen Wallace respected and admired the work of nurses, and Gov. George Wallace was a strong supporter of UAB and provided significant support through funding and legislation. This fund is used for scholarships and many other worthy purposes within the UAB School of Nursing.

The Hill Crest Foundation Endowed Nursing Scholarship: Established by the Hill Crest Foundation to provide financial assistance to deserving students who are admitted to the UAB School of Nursing. Criteria: Students must be currently enrolled in, or admitted to, a degree-granting program in the School of Nursing. First preference will be given to students seeking a second degree in the Accelerated Masters in Nursing Pathway (AMNP). Applicants must have at least an overall 3.0 grade point average in foundational and overall coursework completed prior to the time of application.

James Coleman Lee, Sr., Endowed Nursing Scholarship: Established by the late James. C. Lee, Jr. and his wife Rose, through the Buffalo Rock Company to honor the memory of Mr. Lee’s father, James Coleman Lee, Sr., this scholarship was created to encourage students to enter the nursing profession and to make it possible for many future nurses to focus on their studies without the burden of financial pressure. Criteria: admission to the UAB School of Nursing. Applicants should demonstrate solid academic promise and have earned at least a cumulative 2.8 grade point average on a 4.0 scale in coursework prior to the time of
application. Preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Financial Aid.

Jarman F. Lowder Endowed Scholarship: Established by Mr. Thomas H. Lowder and his late wife, Jarman, to encourage students to enter the nursing profession and to make it possible for many future students in the School of Nursing to focus on their studies without the burden of financial pressures. Mrs. Lowder (BSN 1973) served on the Board of Visitors for the School of Nursing until her untimely passing. Criteria: must be admitted to or enrolled in a full-time degree-seeking program at the School of Nursing, have a cumulative 3.0 grade point average on a 4.0 scale in coursework at the time of application. Applicants will demonstrate high moral character and preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Financial Aid.

Jean Riley Tomlinson Endowed Nursing Scholarship: Established by Mrs. Jean Riley Tomlinson, longtime member and former chair of the UAB School of Nursing Board of Visitors. This scholarship pays tribute to the nurses and physicians specializing in cardiovascular illnesses that provided excellent care to her late husband, Jack O. Tomlinson, Sr. It is the Tomlinson’s intent that this scholarship make a significant difference for students in need of financial assistance for higher education. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least 3.0 on a 4.0 scale, and demonstrate financial need as determined by the UAB Office of Financial Aid. Preference will be given to those who have demonstrated an interest in cardiovascular nursing.

Jernigan Endowed Nursing Scholarship: Established by the late Thomas E. Jernigan, Sr. and his wife Donna. Mrs. Jernigan is a member of the UAB School of Nursing Board of Visitors. Criteria: must have a cumulative grade point average of at least 3.0 on a 4.0 scale, and be eligible to enroll full-time in a junior level clinical nursing course at the University of Alabama School of Nursing at UAB. Preference will be given to those who demonstrate leadership potential or ability through participation in extracurricular activities or similar experiences.

Jo Ann Barnett Endowed Nursing Scholarship: Established with funds from friends, colleagues and family of the late Jo Ann Barnett (BSN 1987, MSN 1990), this scholarship was created to honor Ms. Barnett’s memory and to benefit students in the School of Nursing. Criteria: admission to or current full-time enrollment in the UAB School of Nursing MSN program, with preference given to those students pursuing a career in neonatal nursing or oncology nursing. Applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

John Wilson Rodgers Endowed Memorial Scholarship: Established by Dr. Marguerite Rodgers Kinney (Dipl. 1961), a former faculty member at the UAB School of Nursing, as a memorial to her father. Criteria: good academic standing, current full-time enrollment in study leading to the MSN degree. Preference will be given to applicants who are pursuing, or have demonstrated an interest in psychiatric mental health nursing. Applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Junior Board of Visitors Endowed Nursing Scholarship: Established by the UAB School of Nursing Junior Board of Visitors with proceeds from the No-Show Ball fundraisers. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, have earned a cumulative 3.0 grade point average on a 4.0 scale, and deserving of financial assistance as determined by the UAB Office of Financial Aid. First preference will be given to students demonstrating an interest and commitment to providing pediatric nursing care.

Lois and Barry Luther National Alumni Society Endowed Nursing Scholarship: Established by UAB School of Nursing alumna and former faculty member, Lois Luther and her husband, Barry Luther to provide financial assistance to undergraduate nursing students. Criteria: Must be admitted to a degree-granting program at the School of Nursing and have earned at least a 2.5 in coursework completed prior to the time of application. Students do not have to qualify for federal assistance to be considered for this award.

Lois Drolet Luckie Endowed Nursing Scholarship: Established in memory of Mrs. Lois Luckie by her loving husband, Robert Luckie, Jr. This scholarship is awarded in honor of Holli Kemper (BSN 1985), one of Mrs. Luckie’s oncology nurses. According to the late, Mr. Luckie, Ms. Kemper constantly “went the extra mile” during his wife’s terminal illness, carrying out her duties with great professionalism, cheerfulness and sympathetic skill. Criteria: must be admitted to or enrolled full-time in the School of Nursing, a cumulative grade point average of at least 3.0 on a 4.0 scale. Preference will be given to applicants who express an interest in oncology nursing.

Mable E. Lamb Endowed Nursing Scholarship: Established with funds from a planned gift to honor Dr. Lamb’s commitment to educating the nurses of the future. Criteria: must have a cumulative grade point average of at least 2.8 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Financial Aid.

Margaret and Bradford Kidd Endowed Nursing Scholarship: Established by Margaret and the late, William Bradford Kidd. Mrs. Kidd is a member of the UAB School of Nursing Board of Visitors. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, must have a cumulative grade point average of at least 3.0 on a 4.0 scale, and applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

Margaret Parks Kendrick Nursing Scholarship: Established by Dr. Marvin Hayne Kendrick as a memorial to his mother, Margaret Parks Kendrick. Criteria: must show financial need as defined by the UAB Financial Aid Office, be admitted to or enrolled in full-time study leading to the BSN degree at the University of Alabama School of Nursing at UAB, and have a cumulative grade point average of at least 3.0 on a 4.0 scale. Preference will be given to residents of Crenshaw County, Alabama.

Marie Carter Bonner Memorial Scholarship: established by friends and associates as a memorial to Mrs. Bonner, who worked as a nurse at UAB Hospital for more than 20 years and served as Director of Psychiatric Nursing. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing at UAB, and a cumulative grade point average of at least 3.0. Preference will be given to applicants who express an interest in psychiatric mental health nursing.

Marie L. O’Koren School of Nursing Alumni Association Endowed Scholarship: Established with funds received from the late, Dr. Marie L. O’Koren and members of the alumni association of the UAB School of Nursing, in honor of Dr. O’Koren’s many years of service as dean of the School. Criteria: admission to or current full-time enrollment in study leading to a degree in nursing at the UAB School of Nursing, cumulative grade point average of at least 3.0 on a 4.0 scale, and a demonstrated financial need as determined by the UAB Office of Student Financial Aid.

Marie S. Ingalls Endowed Nursing Scholarship: Established by funds from the estate of Marie S. Ingalls, a noted civic leader and
philanthropist, who was a member of the UAB School of Nursing Board of Visitors. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing. Applicants must have at least an overall 3.0 grade point average on a 4.0 scale at the time of the scholarship application.

Martha F. Tilt Endowed Nursing Scholarship: Established by Mrs. Tilt’s three sons, family, and friends - with the intent that nursing students be given a helping hand into a profession through this scholarship, and in memory of one inspirational role model who lived and defined the profession - a lady who gained her rewards in life through befriending, comforting and caring for others. Mrs. Tilt had the heart of a nurse and shared it freely with everyone she met. Criteria: admission to or current full-time enrollment at the School of Nursing, and a cumulative grade point average of at least 2.5 on a 4.0 scale. First preference will be given to mature, non-traditional, first-year nursing undergraduate students, as defined by the University, and to those applicants who plan to practice nursing either in a clinical or a hospital setting upon graduation. Preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Student Financial Aid.

Mary G. Nash Endowed Nursing Scholarship: Established by colleagues and friends to pay tribute to Dr. Mary G. Nash and her service to the School of Nursing, University Hospital, and UAB. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing Preference will be given to applicants who plan to work in Alabama upon graduation. The School of Nursing Office of Development and Alumni Affairs announces application deadlines and procedures.

Mary Josephine Harwell Nursing Scholarship: Established with funds received from the estate of Mary Josephine Harwell through the provisions of her will. Criteria: must be admitted to or currently enrolled full-time in study leading to the BSN degree at the UAB School of Nursing, and have a cumulative grade point average of 2.5 or higher. Preference will be given to residents of Elmore County, Alabama, and neighboring counties, and those who show financial need as defined by the UAB Financial Aid Office.

Nancy Eastman Harp Oncology Endowed Nursing Scholarship: Established by the late, Peggy Spain McDonald, a longtime community leader in Birmingham. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least 3.0, and evidence of marked achievement or potential for marked achievement in oncology nursing.

Peggy Spain McDonald Endowed Nursing Scholarship: Established by the late, Peggy Spain McDonald, a longtime community leader in Birmingham. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, a cumulative grade point average of at least 3.0 on a 4.0 scale, and must demonstrate financial need as determined by the UAB Office of Student Financial Aid. Preference will be given to those who have demonstrated an interest in geriatric nursing.

Rachel Z. Booth Endowed Nursing Scholarship: Established by the UAB School of Nursing Board of Visitors with proceeds from the 2005 “MASH: Make Another Scholarship Happen” fundraising event. Dr. Booth served as the School of Nursing’s third dean from 1987-2005. Criteria: students must be currently enrolled in, or admitted to, a doctoral program in the UAB School of Nursing, a cumulative grade point average of at least 3.2 on a 4.0 scale, and applicants must demonstrate financial need as determined by the UAB Office of Financial Aid.

The Reese Phifer, Jr. Endowed Nursing Scholarship: Established by the Reese Phifer, Jr., Memorial Foundation to support Alabama students pursuing degrees in nursing and to honor the late Mr. Phifer. The scholarship assists Alabama residents who are currently enrolled in, or have been admitted to, the baccalaureate, masters or doctoral degree-seeking program within the UAB School of Nursing. Criteria: admission to or current full-time enrollment in study leading to a degree in the School of Nursing, a grade point average of at least 3.0 on a 4.0 scale, and must be a resident of the state of Alabama.

Rylee/Casper Endowed Nursing Scholarship: Established by a charitable gift from Mrs. Gladys Muriel Rylee Casper who was a 1947 diplomat of the School of Nursing and served for more than two decades as a nurse in the armed forces. Criteria: admission to or current full-time enrollment in a degree-seeking program at the UAB School of Nursing, demonstrate financial need as determined by the UAB Office of Student Financial Aid, and applicants must be residents of the State of Alabama. Preference will be given to applicants from Bibb, Chilton, or Perry Counties.

Seth Houston McCain, Jr. and Elizabeth Morgan McCain Endowed Scholarship in Pediatric Nursing - Established by the Junior Board of Visitors in memory of twin babies for whom the scholarship is named, to provide financial assistance to deserving nursing students specializing in pediatric care. Criteria: Must be admitted to or currently enrolled in the graduate program in the UAB School of Nursing. First preference will be given to applicants wishing to pursue a career in neonatal nursing. Applicants should have earned at least an overall 3.0 grade point average in coursework completed prior to the time of application.

SOS Foundation Scholarship: Established with funds received from the Sabin Oral Sunday (SOS) Foundation of Jefferson County. Preference will be given to a Jefferson County, Alabama, resident enrolled full-time in study leading to the BSN degree at the UAB School of Nursing.

The Robert Luckie Family Endowed Nursing Scholarship: Established by Robert E. Luckie, Jr., to enable deserving nursing students attending the UAB School of Nursing realize their dream of receiving a quality education. Criteria: admission to or current full-time enrollment in a degree-seeking program in the UAB School of Nursing, a cumulative grade point average of 2.8 on a 4.0 scale. Preference will be given to students who are citizens of Alabama or who express a desire to work in Alabama following graduation and demonstrate financial need as determined by the UAB Office of Financial Aid.

The School of Nursing Dean’s Merit Endowed Scholarship: Four scholarships are available per year to undergraduate students. Three of these scholarships are two-year renewable scholarships and one is for one year only. The amount of the scholarship is $1,000 per year. Criteria: a “B” (3.0) average on all collegiate pre-nursing work attempted. For renewal of a two-year scholarship, a student must maintain a 2.5 grade point average on nursing courses. All applicants for admission to study leading to the BSN degree at the School of Nursing are automatically considered for the Dean’s Scholarship.

The School of Nursing Faculty and Staff Endowed Scholarship: Established with funds from School of Nursing Faculty and Staff, this scholarship was established to benefit the training and education of deserving nursing students. Criteria: admission to or current full-time enrollment in a degree-seeking program in the University of Alabama.
School of Nursing at UAB and an overall 3.5 (on a 4.0 scale) grade point average in coursework completed prior to time of application.

**The Student/Alumni Endowed Nursing Scholarship:** Established with funds raised from current and former students, this scholarship was developed by former students who wanted to make a difference in the lives of future students. Every year, former students contribute through the School of Nursing’s Annual Fund. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least a 3.0 on a 4.0 scale

**Thelma Walker Mitchell Endowed Nursing Scholarship:** Established with funds from the estate of Thelma Walker Mitchell, who was a 1941 graduate of the Hillman Hospital School of Nursing at what is now UAB. She made maternal and child health nursing her life’s work, including many years as a nursing consultant to the Alabama State Department of Public Health Bureau of Maternal and Child Health in Montgomery.

**Terri J. Broach Nursing Scholarship Endowment:** Established by friends and family members as a memorial to the late Terri J. Broach, who was a student at the UAB School of Nursing. Criteria: must be a resident of the State of Alabama, be admitted to or enrolled in full-time study leading to the BSN degree in nursing at UAB, and have a cumulative grade point average of 2.5 or above. Preference will be given to those who have an active relationship with a church, synagogue, or other religious institution or order, and those who show financial need as defined by the UAB Financial Aid Office.

**Thor-Louck Endowed Nursing Scholarship:** Established with funds from Isobel H. Thorp and Phyllis M. Loucks, beloved former faculty members of the School of Nursing. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least a 3.0 on a 4.0 scale.

**The UAB Hospital Auxiliary Endowed Nursing Scholarship:** Established by the UAB Hospital Auxiliary to assist nursing students currently working at UAB Hospital or in the UAB Health System and with an intention of practicing at UAB Hospital with the completion of their studies. Criteria: must be undergraduate students currently enrolled or admitted to the School of Nursing, with first preference given to applicants planning to work at UAB Hospital after graduation. Applicants should have earned at least an overall 3.0 grade point average. Applicants must work at UAB Hospital in a part-time or full-time capacity, have completed one full year of employment and be in good standing. A reference letter from the applicant’s immediate supervisor is required as part of the scholarship application and will be used to determine good standing.

**Virginia Bonds Black Endowed Nursing Scholarship** – Established by Virginia Bonds Black to provide financial assistance to deserving nursing students. Ms. Black, a 1950 diploma graduate of Jefferson Hillman School of Nursing, spent her entire career as a dedicated servant to others. Criteria: must be currently enrolled in, or admitted to the School of Nursing at UAB and have earned at least an overall 2.8 (on a 4.0 scale) grade point average.

**William Groce Campbell Endowed Nursing Scholarship:** Established by Myrtle Campbell Bell in memory of her brother, William Groce Campbell, this scholarship was created to benefit students in the UAB School of Nursing. Criteria: admission to or current full-time enrollment in a degree-seeking program in the School of Nursing, and a minimum grade point average of 2.8 on a 4.0 scale.

**William C. Howton Endowed Nursing Scholarship** – Established by the late, William C. Howton in honor of his two daughters who are registered nurses. Criteria: must be admitted to or enrolled in the undergraduate program at the UAB School of Nursing and have earned at least an overall 3.0 grade point average on a 4.0 scale. Preference will be given to applicants who are deserving of financial assistance as determined by the UAB Office of Student Financial Aid.

**Worthington-Cargo Family Endowed Nursing Scholarship:** Established by Nancy and Allan Worthington to support students in the Doctor of Nursing Practice Program who plan to pursue an Advanced Clinical Specialization in Adult Gerontology. Criteria: must show financial need as defined by the UAB Financial Aid Office and have a cumulative grade point average of 3.0 or above. Preference will be given to residents of Alabama who plan to continue to work in Alabama as a doctorally-prepared clinical nurse.

**Comer Nursing Scholarship:** Established with funds received from the Comer Foundation. The Comer Foundation Scholarship program serves as a tribute to the tradition and future commitment in support of higher education. Criteria: must show financial need as defined by the UAB Financial Aid Office, be a resident of the State of Alabama, have a cumulative grade point average of 3.0 or above, intend to practice nursing in the State of Alabama, and be enrolled full-time in study leading to the BSN degree at the University of Alabama School of Nursing at UAB.

**Lettie Pate Whitehead Foundation Scholarship:** The Lettie Pate Whitehead Foundation was established in 1946 by Conkey Pate Whitehead. Mr. Whitehead established the Foundation as a memorial to his mother. Criteria: Exclusively for the purpose of providing need-based scholarships to deserving Christian women who are residents of one of the following states: Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and Virginia.

**Violet Terrell Clark Nursing Scholarship:** Established by Mr. and Mrs. Steve M. Bates in memory of Jean Clark Bates’ mother, Violet Terrell Clark. Criteria: admission to or current full-time enrollment in study leading to a degree at the School of Nursing, and a cumulative grade point average of at least 3.2 on a 4.0 scale. Preference will be given to applicants who plan to work with underprivileged patient populations upon graduation.

**Academic Common Market**

The Academic Common Market is an interstate agreement among selected southern states for sharing academic programs at both the baccalaureate and graduate levels. Participating states are able to make arrangements for their residents who qualify for admission to enroll in specific programs in other states on an in-state tuition basis. Participating states are Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

If you are not an Alabama resident and you wish to enroll at UAB as an Academic Common Market student, you must be accepted for admission into a UAB program to which your state has obtained access for its residents through the Academic Common Market coordinator in your home state.

Certification of eligibility must be received by the Office of Undergraduate Admission before the first day of class in the initial semester of registration to obtain in-state tuition status for the entire program; otherwise, in-state tuition status will be awarded beginning with the
semester following receipt of this certification. Please note that if a student who enrolls at UAB as an Academic Common Market student changes majors, the student will revert to paying out-of-state tuition.

To obtain the name and address of a state coordinator, visit the Academic Common Market web site (www.sreb.org/page/1304/) (http://www.sreb.org/page/1304).

**Progress Toward a Degree**

**Responsibilities**

The student is responsible for selecting and registering for courses necessary for reasonable progress toward the degree sought. The minimum requirement for reasonable academic progress is that the student must pass a minimum of 24 semester hours of coursework in an academic year.

The Office of the Registrar is responsible for registration, recording and reporting grades; maintaining current and permanent records on all students; enforcing rules on academic warning, probation and suspension; certifying students for graduation; and issuing transcripts. The office is located in the 1605 Building, 1605 11th Avenue South, Birmingham, Alabama 35294-4300, (205) 934-8228.

Students must notify the Office of the Registrar of address changes so that notices and other materials are sent to the current address. Changes may be made online in BlazerNET or in person.

**Freshman Year Experience**

Students entering UAB with less than 24 hours of college credit must successfully complete a first year experience (FYE) course in their first 24 credit hours at UAB. FYE courses include freshman learning communities, U101, and school-specific FYE courses.

**Capstone Course**

All UAB students must successfully complete the capstone course or experience required by their major program or school in order to graduate.

**Declaration of a Major**

All students must declare a degree-awarding major by the time they earn 60 semester hours of coursework, including courses currently in progress, before registering for the next semester. Students who (1) have been dismissed from a degree-awarding major or professional program, (2) have over 60 semester hours of coursework, including courses currently in progress, and (3) are in a non-degree awarding major must declare a new degree-awarding major before enrolling for a second semester. Students who do not declare a major within the stated timeframe will not be allowed to register for the next term and must contact their academic adviser and change their major before enrolling.

Newly admitted students who have previously earned 75 or more hours without receiving a baccalaureate degree must declare a degree-awarding major during their first term of enrollment.

Conditions for acceptance of a student into a major vary by department, school, and college. Majors should be declared or changed online at Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4 "";* Style Definitions */table.MsoNormalTable {mso-style-name:"Table Normal"; mso-nstyle-rowband-size:0; mso-nstyle-priority:99; mso-nstyle-parent:""; mso-panning-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman","serif"); BlazerNET. Some majors are subject to additional admission requirements and enrollment limitations.

**School, Major, or Address Changes**

Changes or corrections to a student's address, telephone number, school, or major can be made online through BlazerNET or at or in person at One Stop Student Services, Room 103 of the Hill Student Center, 1400 University Blvd., Birmingham, Alabama 35294-1150.

**Course Enrollment**

**Terms and Course Offerings**

There are three academic terms during a calendar year: fall semester, spring semester, and summer semester. The fall and spring semesters each consist of approximately 14 weeks of classes, followed by one week of final examinations. The summer term consists of five sessions, each with its own time and format. The five summer term sessions are as follows: a fourteen-week session that runs throughout the summer term; the intensive May session, consisting of the first three weeks of the summer semester; a ten week session, beginning after the May session ends and running until the end of the summer semester; and the summer A and summer B sessions, which are seven weeks long and run back-to-back concurrently with the fourteen week session. The courses to be offered during a particular term are listed in the online Class Schedule. Summer/Fall class schedules are available to students in early March; spring semester schedules are available in late October. Early registration in April allows current students to enroll in fall semester classes on a priority basis. Class schedules are available in BlazerNET (http://www.uab.edu/blazernet) and also online http://www.uab.edu/home/academics.

**Course Numbering System**

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<tr>
<th>Course Numbers</th>
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<tr>
<td>000 - 099</td>
<td>Developmental Courses</td>
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<tr>
<td>100 - 199</td>
<td>Freshman Level</td>
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<tr>
<td>200 - 299</td>
<td>Sophomore Level</td>
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<tr>
<td>300 - 399</td>
<td>Junior Level</td>
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Class.

A student wishing to attend any of the three academic terms must register for that specific term. A student is eligible to register if he/she has been admitted to UAB, the student’s financial records in the Student Accounting Office are clear, and the student is in good academic standing. An early registration period for fall semester will occur every spring for degree-seeking students.

A degree-seeking student who has not registered for course work over a period of one academic year must reapply for admission to resume study as a degree-seeking student. If accepted, the student is subject to the policies of the catalog current at the time of re-enrollment.

Registration can be accomplished online through BlazerNET (http://www.uab.edu/blazernet).

Credit Hours and Loads

The unit of credit at UAB is the semester hour. Course descriptions indicate the number of semester hours that may be earned for a particular course. A standard course load for a full-time student is 15 semester hours of course work in a semester. At least 12 semester hours of course work are required for full-time status. Registration for more than 18 semester hours in a term or more than three semester hours in the May Session requires approval by the dean or the dean’s representative of the school in which the student is majoring.

Prerequisites for a Course

Prerequisites are enforced for UAB students. Prerequisites are waived for transient students taking courses at UAB. It is the student’s responsibility to ensure that prerequisites for a course are met before registering for the course. Advisors are available to help with this determination. Prior to the end of the designated drop period, the instructor has the prerogative to drop from the course a student who does not meet the prerequisites.

First Class Attendance

An instructor has the prerogative to drop a student from a course if the student is absent without prior notification from the first class of a term. Such action is at the discretion of the instructor, and absence from the first class does not automatically drop the student from the course. If a student wishes to drop or withdraw from the course, the student must follow official drop or withdrawal procedures. A student who misses the first class of a term is responsible for determining his/her status in the class.

Undergraduate Students in Graduate Courses

With the approval of their advisor, the undergraduate program director or department chair, and the instructor, UAB undergraduate students may be allowed to register for a graduate course. Credits earned by undergraduate students may be applied to either an undergraduate degree or a graduate degree, but not both. If the student is subsequently admitted to the Graduate School, use of this credit toward a graduate degree requires the approval of the graduate program director and the Graduate School dean. (The Graduate School does not give credit for any grade below a “C”.) Credits that have been used toward the baccalaureate degree cannot be used a second time toward a graduate degree.

Registration

A student wishing to attend any of the three academic terms must register for that specific term. A student is eligible to register if he/she has been admitted to UAB, the student’s financial records in the Student Accounting Office are clear, and the student is in good academic standing. An early registration period for fall semester will occur every spring for degree-seeking students.

A degree-seeking student who has not registered for course work over a period of one academic year must reapply for admission to resume study as a degree-seeking student. If accepted, the student is subject to the policies of the catalog current at the time of re-enrollment.

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Attendance and Excused Absence Policy

UAB recognizes that the academic success of individual students is related to their class attendance and participation. Each course instructor is responsible for establishing policies concerning class attendance and make-up opportunities. Any such policies, including points for attendance and/or participation, penalties for absences, limits on excused absences, total allowable absences, etc., must be specified in the course syllabus provided to students at the beginning of the course term. Such policies are subject to departmental oversight and may not, by their specific prescriptions, negate or circumvent the accommodations provided below for excused absences.

The University regards certain absences as excused and in those instances requires that instructors provide a reasonable accommodation for the student who misses assignments, presentations, examinations, or other academic work of a substantive nature by virtue of these excused absences. Examples include the following:

- Absences due to jury or military duty, provided that official documentation has been provided to the instructor in a timely manner in advance.
- Absences of students registered with Disabilities Services for disabilities eligible for “a reasonable number of disability-related absences” provided students give their instructors notice of a disability-related absence in advance or as soon as possible.
- Absences due to participation in university-sponsored activities when the student is representing the university in an official capacity and as a critical participant, provided that the procedures below have been followed:
  - Before the end of the add/drop period, students must provide their instructor a schedule of anticipated excused absences in or with a letter explaining the nature of the expected absences from the director of the unit or department sponsoring the activity.
  - If a change in the schedule occurs, students are responsible for providing their instructors with advance written notification from the sponsoring unit or department.
- Absences due to other extenuating circumstances that instructors deem excused. Such classification is at the discretion of the instructor and is predicated upon consistent treatment of all students.
- Absences due to religious observances provided that students give faculty written notice prior to the drop/add deadline of the term.

In these instances, instructors must devise a system for reasonable accommodation including, for example, policies allowing for dropped exams/quizzes, make-up exams, rescheduling of student classroom presentations or early or later submission of written assignments.

Add/Drop Procedures

Drop/Add deadlines are published in the Academic Calendar (https://www.uab.edu/students/academics/academic-calendar) available online. In the case of fall and spring semesters, the last day to drop a class without paying full tuition is the eighth calendar day of the term; the last day to add a class is also the eighth calendar day of the term.

It is the student’s responsibility to initiate add/drop procedures. Students may drop and add courses online after they have registered and until the drop/add deadline online using BlazerNET (http://www.uab.edu/blazernet) or in person in One Stop Student Services.

Students may register online if space is available or use the add/drop form and receive an instructor’s signature and special permission to
enroll in classes that are filled to capacity. A student beginning the registration process during the late registration period will be assessed a late registration fee of $75.

**Withdrawal from Courses**

To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). The withdrawal period ends at approximately 75% of the academic term. Failure to attend class does not constitute a formal drop or withdrawal.

Withdrawal from courses can only be accomplished using official procedures. The official withdrawal must be completed online in BlazerNET. In extraordinary circumstances, if it is impossible for the student to withdraw online the student may mail a withdrawal letter to the Office of the Registrar. The official date of withdrawal will be the date the letter is received in this office. If the official date of withdrawal is after the last day to drop without paying, no tuition or fees will be refunded.

For financial aid purposes, the date of last class attendance will be the official date of withdrawal unless otherwise documented. Note that individual schools may have withdrawal rules in addition to the above.

Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student’s performance prior to withdrawal if the violation is substantiated.

**Exceptions**

All students are responsible for adhering to UAB’s academic policies, as published in the UAB Undergraduate Catalog. The Provost may make exceptions to policies. Exceptions will only be made in extraordinary circumstances. Only in cases of serious illness, which precludes a student from attending classes, or a call to active military service, can a student qualify under this policy for either administrative or academic withdrawal from courses from that semester. In such instances, students requesting an exception to policy must provide the cause specific documentation in order for the request to be considered.

Requests are evaluated only from written documentation and not through appointments or telephone calls. Information and forms are available online (https://www.uab.edu/students/academics/item/899-exceptions-to-academic-policy). (Please note that grievances of an academic nature are addressed through the Academic Grievance Policy). Requests for exceptions must be submitted at the earliest possible time. Consideration will not be given to any request submitted later than the term immediately following the term for which the exception is being requested. A full reduction in tuition and associated fees will be made for appropriately documented serious illnesses or military service activation, which preclude a student from continuing his/her studies at UAB. For students receiving refunds, such refunds will first be applied to any outstanding obligations and to any scholarship, grant, or loan the student has received for that term. A student who is receiving any form of Federal Title IV Financial Aid will be liable for any unearned funds received as determined by the Federal Return of Funds Policy (check with Student Accounting Office (http://financialaffairs.uab.edu/content.asp?id=261145) for details.)

Failure to adhere to the published drop and withdrawal deadlines (as outlined in the UAB Catalog and the UAB Class Schedule) does not qualify under this policy as an Academic Exception.

**Contact**

Exceptions to Academic Policy • Office of the Registrar • 1605 11th Avenue South • Birmingham, AL 35205 • (205) 934-8228

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**Course Completion**

**Final Examinations**

The final examination for each course is scheduled for a designated period during finals week. The final examination time cannot be changed without the approval of the appropriate dean. A student with three or more exams scheduled in one day or two exams scheduled during the same final exam period may request to have one exam rescheduled by mutual agreement between student and instructor. The student’s request to the instructor should include appropriate written documentation of his/her schedule and should be provided to the instructor at least 14 calendar days prior to the last day of classes. Faculty are encouraged to work collaboratively with students and other faculty when such situations arise. Faculty reserve the right to administer an alternate examination at the rescheduled time.

**Grading Policies and Practices**

**Grade Report**

Final grades of all students are recorded and posted to their transcripts. In determining these final grades, the faculty may consider such things as grades received in daily recitations, written work, laboratory work, tests, and final examinations. Grade reports are available online.

**Grades Assigned by the Faculty**

A (superior achievement)
B (above average)
C (average)
D (minimally adequate)
F (failing)
P (passing) Applicable only to a course taken on a pass/fail basis.
I (incomplete) is a temporary notation which is assigned at the discretion of the instructor, and only if the following three conditions are met.
• The student, for nonacademic reasons beyond his or her control, is unable to complete course requirements.
• The student is, according to the instructor’s assessment, currently passing or has demonstrated the potential for passing the course.
• The student has made arrangements with the instructor, prior to the grade submission deadline, for completing the course requirements.

It is the responsibility of the student receiving an Incomplete to arrange with the instructor whatever action is needed to remove the Incomplete at the earliest possible date. If make-up work requires classroom attendance in a subsequent term, the student must register for the course as an auditor (with the instructor’s permission) and must pay tuition and associated fees.

An Incomplete will not be calculated in the student’s grade point average for the term in which the notation appears. However, an Incomplete that is not changed by the Instructor by the grade submission deadline of the next semester automatically converts to an F. A notation of Incomplete may not be used to meet a prerequisite requirement. A student cannot graduate with an Incomplete notation on his or her academic record.

MT (Multi-term) is a temporary notation which may be assigned in departmentally approved courses, including theses, practica, and internships, if work cannot be completed within one semester. A notation of MT will not be calculated in the student’s grade point average for the term in which the notation appears. However, an MT notation that is not changed by the instructor by the grade submission deadline of the next semester automatically converts to an F. A notation of Incomplete may not be used to meet a prerequisite requirement. A student cannot graduate with an MT notation on his or her academic record.

Notations Assigned by the Office of the Registrar

W (withdrawn) A notation assigned by the Office of the Registrar reflecting an administrative action initiated by the student in accordance with regulations governing withdrawal from courses. “W” (withdrawn) may not be assigned by the instructor.

N (no grade submitted) A temporary notation made by the Office of the Registrar if no grade (A, B, C, D, F, I, or P) is assigned the student by the course instructor. This notation is used only when the Office of Registrar is unable to obtain a grade from the instructor prior to the issuing of grades for the semester or when the course is designed to extend beyond a single term. It remains the instructor’s responsibility to assign a permanent grade. If the instructor has not submitted a grade by the end of the following term, the “N” (no grade submitted) is changed automatically to an “F” (failing) by the Office of the Registrar. The notation “N” cannot be extended.

Study Abroad Grading Policy

Auditing

Auditing of any study abroad courses will not be permitted. This policy has been put into effect to ensure full participation by all students on such programs. This policy includes UAB student exchanges, UAB faculty-led programs, Non-UAB Programs (third party programs), and any other study abroad programs.

Grade Assignment and Posting of Study Abroad Grades to the UAB Transcript

In cases where a student is receiving a transcript from a foreign institution, UAB will honor the U.S. equivalent of the final grade that is assigned by that host institution and posted to the official transcript of said host institution. If a foreign institution assigns a pass/fail grade on the official host institution transcript, then the UAB transcript will reflect such a pass/fail grade.

For those programs in which a UAB faculty member is teaching a class, the instructor will assign the final grade as is normally done for any regular UAB class taught on campus. See the Grading Policies and Practices section of the UAB Undergraduate Catalog (p. ). In most cases letter grades shall be assigned. Assignment of a pass/fail grade will be left to the discretion of the faculty leader/instructor of the course and will be determined on a case-by-case basis.

In all cases, students must participate fully in all course activities and meet all stated course requirements.

Grade Assignment and Posting of the Washington Center Grades to the UAB Transcript

UAB students wishing to participate in the Washington Center internship program must receive written permission from their academic department at UAB to enroll in the UAB internship course offered by their department prior to applying to the Washington Center. After permission is granted by the student's academic department at UAB, but before the start of the internship, the student will enroll in the UAB internship course offered by the permission-granting department at UAB and will be assigned a UAB faculty member who will act as the instructor of record. The instructor will assign a final grade as is normally done for the internship course in that UAB department.

The Washington Center also offers courses and seminars, which will not count toward a UAB degree.

Grade Change Policy

Final grades for an I (Incomplete) or an MT (Multi-term) should be submitted no later than the grade submission deadline of the semester after the notation was originally awarded; Incomplete and Multi-term notations not changed by that time will convert to Fs. In general, end-of-course grades submitted to the Office of the Registrar are final and are not subject to change by reason of revision of the teacher’s judgment; nor are submitted grades to be revised on the basis of a second trial (e.g., a new examination or additional work undertaken or completed). Grade changes submitted in order to correct an error in computation or transcription must be made within two semesters after the grades were originally submitted. These grade changes must be submitted via BlazerNET and require the teacher’s statement as to the reason for the change, the approval of the department head, and the approval of the dean of the school in which the course is taught.

Auditing Courses

As an alternative to full participation in a course, students may audit the course. Auditors do not receive grades and do not usually participate in the examinations; however, instructors have the option of establishing requirements for a satisfactory audit.
Auditcharacteristicstobelikeformregularenrollment.Studentschoosingthisoptionmustbe admittedtoUAB;enrollinthecourbycompletingaUABregistration form,indicating“AU”inthecolumnlabeled“Sem.Hrs.”;obtain the signature of the instructor; and pay the same tuition and fees as regular enrollees. Provided the instructor’srequirementsaremet,thecoursewill appearonthetranscriptwiththenotation“AU”andzerosemester hours credit.

Iftherequirementsarenotmet,aw“W”willbeenteredonthetranscript.

Courserегистration,withdrawal,anddroppoliciesapplytoaudited courses.Ininstancesofover-enrollment,preferecisisgivenusto students takingcoursescredit,andauditingstudentsmaybedropped.

Astudentisnotpermittedt Changefromaudittocreditorcredittoaudit atanytime.

CoursesTakenonaPass/FailBasis
A degree-seeking student who is in good standing may request permission from an instructor to register for a course on a pass/fail basis. Thetimemustbeoneforwhichthestudentiseligibletoregister andcannotbeamongthoseusedtosatisfycore requirements. Thedepartmenthousingthestudent’smajormustapproveallcoursess Takenonapass/failbasisifusetosatisfymajortheminorrequirements. A studentmustdeclaretheintentiontotakeacourseonpass/failbasisby notifyingthetutorprior tothefirstclassmeeting. Itisrecommended thatstudentssolicittheiracademicadvisorsprior totakinganycourse aspass/fail.

Gradesawardedforapass/fail courseare“P”(pass)or“F”(fail).Agrade of“P”carriesfullcreditforthecourse, butthecourseisnotcountedin calculatingthegrade pointaverage. Atmost,twelve semester hours takenonpass/failbasismaybesatisfiedtodesirequirements( notincludingcoursesforwhich“P”or“F”istheonlygradeawarded).

CourseRepeat
A student may repeat any course in an effort to improve grades and/or to improveunderstandingofthecoursecontent.Studentsareshoencouraged toseekadviceofanacademicadvisorbeforerepeatingcourses.

A student may repeat an individual course no more than one time (for a total of two attempts). Under exceptional circumstances, and upon approval of a formal electronic appeal submitted to the Associate Dean of the College or School in which the course is taught, a student may be allowed to repeat a course for a second time (for a total of 3 attempts). A student may not appeal to repeat a course more than a second time. In order for an appeal to be considered, it must be submitted prior to the first day of the applicable term.

Boththeoriginalgradeandthereduplicatedgrade(s)willshow onthestudent’stranscript. Bothgradeswillalsobe calculatedinthe student’s grade pointaverage(GPA)unlesstheforgivenesspolicyisapplied. Itisthe student’sresponsibilityto notifiytheOfficeofthetutorofhis/her applyingtheforgivenesspolicytoarepeatedcourse.Theresearchis notautomatic.(SeeForgiveness Policybelow). Academicdepartments and schools mayhaveadditionallawsonprovidinghowrepeatcourses affectthecalculati onofGPA.

A course repeat takes place any time a student retakes a course for which that student has already received an A, B, C, D, F, P, W, AU, NP, MT, or N. Students should not re-enroll in a course for which they have been assigned a grade of I (incomplete) and will not be affected by this policy unless the I converts to a grade of F. Courses which are designed
The application will not be considered until the following are met:

1. The student's transcript contains at least 24 semester hours of course work applicable to a degree (i.e. hours earned, but not necessarily to a particular major) at UAB, posted after the requested New Start date.
2. The Higher Education GPA on all work taken after the requested New Start date, as well as the UAB GPA, must be at least 2.0.

Policies governing the New Start Option are as follows:

1. Upon approval of the application, all grades (including passing grades) and notations listed on the transcript prior to the New Start date are placed in a separate listing on the transcript and are voided for purposes of satisfying UAB degree requirements and computing GPA. The transcript carries the notation: "Approved for New Start (date); work prior to this date is not calculated in GPA or applied toward a degree."
2. All work completed after the New Start date is counted toward completion of a degree, in accordance with policies of the catalog in effect at the New Start date. The transcript will be re-evaluated from the New Start date. The forgiveness policy applies only to courses taken after the New Start date.
3. A course completed before the New Start date, and which is a prerequisite for a course to be taken later, must be taken again even if successfully completed before the New Start date, unless explicit exception is made by the chair of the department in which the course is taught.
4. The student may employ alternative credit to replace some voided courses taken prior to the New Start date.
5. A student may not use the New Start Option to graduate with honors.
6. The New Start Option may be granted only once during the student's academic career at UAB and is irrevocable.

Academic Warning, Probation, and Suspension

Academic Warning
A first-term freshman (a student with no previous college credit, except through dual enrollment) will be placed on academic warning if a grade point average of at least 2.0 is not earned during the first term of enrollment. The freshman must meet with his/her academic advisor before the next registration period. If the second term's UAB grade point average is not 2.00 or higher, the freshman will be placed on academic probation.

Academic Probation
A student (other than a first-term freshman) will be placed on academic probation if his/her UAB grade point average falls below 2.00 and will be required to meet with his/her academic advisor before the next registration period. At this meeting, the student and advisor will agree on a plan of action that will best help the student with his/her academic progress (e.g., courses to take or repeat, supplemental instruction, reduced credit hour load, basic skills seminars, etc.). The Academic Plan will be monitored by the student’s academic advisor throughout the probationary period. While on academic probation, the student must earn a minimum 2.0 term GPA each term of enrollment, or they will be suspended (first suspension is one term; any subsequent suspension is one year). In order to clear academic probation, the student must earn a UAB GPA of at least 2.0.

Academic Suspension
If while on academic probation a student fails to achieve a minimum term GPA of 2.0, the student will be suspended for one term. When returning from the one-term suspension, the student must meet with his/her academic advisor to be reinstated prior to registering for classes. The student will be reinstated on academic probation and must achieve a 2.00 or higher term grade point average each term until the UAB grade point average is at least 2.00. The student must achieve a UAB grade point average of at least 2.00 to have the academic probation removed.

Students wishing to return to UAB after a one-year suspension must submit an application for readmission and a letter of appeal for readmission to the Office of Undergraduate Admission. The deadline for a student to submit an application and letter of appeal for readmission will be eight weeks prior to the date of intended enrollment. By this deadline, an applicant must have submitted any attending documentation to support the appeal.

If readmitted to UAB after a one-year suspension, the student will be admitted under probation and must achieve a 2.00 grade point average each term until the UAB grade point average is at least a 2.00. If both the term grade point average and the UAB grade point average fall below 2.00, the student will be placed on suspension for one year.

Credits earned while on academic suspension from UAB or another institution may be eligible for transfer. However, the UAB Forgiveness Policy can only be applied to grades earned at UAB.

Note that individual schools may have probation and/or suspension rules in addition to the above.

All notations of academic warning, probation or suspension are a permanent part of a student’s transcript.

Appeal of a One-Term Academic Suspension
Students academically suspended from UAB for one term are not allowed to register for classes at UAB until the end of the suspension period. If a student appeals successfully, he or she will be immediately eligible for readmission.

The procedure for a student to appeal an academic suspension decision is as follows:

1. The suspended student must present a petition describing the extraordinary personal circumstances that contributed to his or her academic deficiencies. Such events must be highly unusual such as the death of an immediate relative, a serious illness, severe financial distress, or personal crisis. Each individual wishing to appeal an academic suspension is required to submit a petition outlining the reasons for the applicant’s previous academic problems and how the applicant plans to correct the problems. Each petition must be accompanied by appropriate documentation relative to the need for additional consideration and/or substantiating the extenuating circumstances related to the appeal. The student petition should be received in the Office of the Registrar no later than five working days prior to the beginning of the desired semester of entry. The suspension appeal documentation will be forwarded to the Suspension Appeals Committee.
2. The Suspension Appeals Committee is composed of five members (two faculty members appointed by the Provost's designee, one student designated by the Student Government Association, one representative from Registration and Academic Records, and the University Registrar) who will review all petitions.

3. Should the Suspension Appeals Committee determine that an extraordinary personal event contributed significantly to the student's academic deficiencies, and there is evidence of an adequate plan to address these extraordinary circumstances, they will recommend that the student be reinstated on academic probation. The student must maintain a minimum 2.0 grade point average or reach the retention standards each semester he or she remains in this status.

4. The decision of the suspension appeals committee is final.

The Office of the Registrar is the administrative unit responsible for the academic suspension appeals process. This unit is responsible for coordinating the appeals process, maintaining the official records and producing annual reports.

Transcripts

Transcripts may be requested online (https://www.uab.edu/students/onestop/item/800-request-an-academic-transcript) or in person at One Stop Student Services.

Upon request by the student, the Office of the Registrar will send an official transcript directly to the recipient designated by the student. Official transcripts will not be issued to the student; however, an unofficial transcript may be issued to the student. There is a charge for each transcript. Transcript requests will be honored only for students whose financial accounts with UAB are clear, including payment of charges for the current term.

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- Overall Credits and Grade Point Average (p. 93)
- Academic Honors (p. 93)
- Transfer Credits (p. 93)
- Courses Taken as a Transient Student (p. 93)
- Alternative Credit Opportunities (p. 93)
- Cooperative Exchange Programs (p. 93)

Classification of Students

Students are classified as sophomores when they have earned 30 semester hours of credit, juniors when they have earned 60 semester hours of credit, and seniors when they have earned 90 semester hours of credit.

Overall Credits and Grade Point Average

The official determination of “credit hours earned,” “credit hours attempted,” and “grade point average” is made only by the Office of the Registrar. The following sections indicate how these figures are calculated. Transfer work and courses taken at UAB are treated on the same basis. Developmental courses are not included in calculations of credit hours earned, credit hours attempted, or grade point average.

Credit Hours Earned

The student’s “credit hours earned” are increased by:

1. Earning a passing grade (D or better) in a course for which the student was registered for credit.
2. Obtaining the “Pass” grade in a course taken on a pass/fail basis.
3. Obtaining the “Pass” grade for alternative credit.

Credit Hours Attempted

The student’s “credit hours attempted” are increased by:

1. Receiving an A, B, C, D, or F in a course for which the student was registered for credit.
2. Receiving the “Fail” grade in a course taken on a pass/fail basis.

Grade Points

Four quality grade points are awarded for each semester hour for which the student received an A grade; three quality grade points are awarded for each semester hour in which a B is obtained; two quality grade points are awarded for each semester hour in which a C is obtained; and one quality grade point is awarded for each semester hour in which a D is obtained. No quality grade points are awarded for an F.

Grade Point Average

The grade point average is determined by taking the grade points obtained and dividing by the credit hours attempted (not credit hours earned). The UAB grade point average is determined using only work attempted at UAB. The cumulative (overall) grade point average is determined by calculating all college work attempted.

Academic Honors

UB compiles and publishes an honor roll at the close of each regular term. Only UAB work is considered. To be eligible for the President's Honors List, students must be registered for and complete at least 12 semester hours of credit and have a 4.0 grade point average for the term. Students who register for and complete at least 12 semester hours of credit and who attain a grade point average of at least 3.6 are included in the Dean’s List for the term. Superior scholastic achievement may be further recognized by election to membership in appropriate national honorary societies.

Transfer Credits

Collegiate coursework earned at postsecondary institutions that are fully accredited (or in candidacy status) by regional accrediting associations will be considered for transfer to UAB and may be applied toward the fulfillment of degree requirements.

Courses Taken as a Transient Student

To take a course at another institution while enrolled as a degree-seeking student at UAB, a student must submit a Transient Student Request via BlazerNET prior to enrolling in the course. The student must check with his/her academic advisor to determine whether the course is transferrable and will be applicable toward a degree at UAB. Further, the student must be in good academic standing (i.e., has a minimum 2.0 GPA at UAB).
Alternative Credit Opportunities

In some instances academic credit may be awarded for work done in a format other than a college course. Credits earned in this way are recorded on the transcript with a grade of P. Such credits may not be used in repeating a course and may not be awarded for work equivalent to a course that is a prerequisite to a course already taken for credit. No more than 45 semester hours of alternative credit may be applied toward a degree.

Opportunities for earning credit outside the normal course format include:

Advanced Placement (AP)
The amount of credit awarded and the examination score required are stated in the current policy. To determine which tests are eligible for UAB credit please see the Advanced Placement Credit Table (p. 96).

College Level Examination Program (CLEP)
The CLEP General Examination must be taken before 15 semester hours of college work have been completed. The subject-area examinations are assigned credit as listed in the UAB CLEP Policy statement. For more information on CLEP testing schedules, fees and study guide information, please contact the UAB Testing Office http://www.uab.edu/testing or call (205) 934-5503. To determine which tests are eligible for UAB credit please see the College Level Examination Program Credit Table (p. 97).

International Baccalaureate Credit (IB)
Academic credit may be awarded for scores of five or higher on IB standard-level and higher-level examinations. To determine which tests are eligible for UAB credit please see the International Baccalaureate Credit Table (p. 99).

Credit by Examination (CBE)
A degree-seeking student may petition to obtain credit for a course by taking an examination; however, not all programs will accept CBE. It is the student’s responsibility to verify the applicability of CBE courses for major/minor requirements. The relevant department must agree to create and grade the examination. If a student takes CBE in a course that he/she has already taken for credit, the grade for CBE will not replace the grade for the previous course. The fee for CBE is based on the current rate of tuition according to level (undergraduate/graduate) and residency status. The Credit by Examination application is available online: CBE Form.

Credit by Portfolio (CBP)
A degree-seeking student may petition to receive credit for a course on the basis of a portfolio of information documenting knowledge of the course material. The chair of the appropriate department and dean of the school make the final decision on acceptability of the materials for credit. The fee for CBP is based on the current rate of tuition according to level (undergraduate/graduate) and residency status. The Credit by Portfolio application is available online: CBP Form.

Non-collegiate Courses
Credit may be awarded for non-collegiate courses in accordance with American Council on Education recommendations and approval of the appropriate department chair and dean.

Credit for Military Experiences
UAB evaluates military service and educational experiences completed by active-duty military service and Coast Guard personnel. UAB is an institutional member of Service Members’ Opportunity Colleges.

Dante's Subject Standardized Tests (DSST)
The DSST, prepared by the Chauncey Group, is a nationally recognized credit by examination program that awards college credit for courses taken by examination. DSST Examinations are scheduled individually, by appointment. To determine which tests are eligible for UAB credit please see the DANTES Subject Standardized Test Credit Table (p. 98).

Cooperative Exchange Programs

Birmingham Area Consortium for Higher Education (BACHE)
UAB, Birmingham-Southern College, Miles College, the University of Montevallo, and Samford University have established the Birmingham Area Consortium for Higher Education (BACHE) to expand educational opportunities for their students. Please visit the web site http://www.uab.edu/bache/ for more information on BACHE.

The University of Alabama System
UAB students may also enroll in courses at the University of Alabama and the University of Alabama in Huntsville through the University of Alabama System Cooperative Exchange Program. Any full-time, degree-seeking UAB student who is in good academic standing may, with written permission from his/her academic advisor and dean, and at no additional charge, take a course at another cooperative exchange institution if it is not offered at UAB and it is deemed to be beneficial to the student’s overall educational program. All courses eligible to be taken through the cooperative exchange programs must be articulated by UAB prior to the student’s registration. Credit for work completed under the cooperative programs will be posted on the student’s record as UAB credit.

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  • Procedure for Suspected Violation (p. 94)
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• Student Complaints (p. 94)
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  • Non-Academic Matters (p. 94)
Conduct and Complaints

Student Conduct

The university expects mature and honorable behavior from every student and reserves the right to take appropriate disciplinary action when such behavior is not forthcoming.

Academic Conduct

All UAB students are expected to be familiar with the UAB Academic Honor Code as well as any honor codes that are specific to their schools or disciplines.

The code represents a commitment to integrity in the academic community and a respect for an individual’s educational endeavors:

I have read and, by choosing to become a member of the UAB academic community, accept the UAB Academic Honor Code. I understand that violation of this code will result in penalties as severe as expulsion from the university. I promise and confirm that I will not, at any time and under any circumstances, involve myself with abetting, cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at the University of Alabama at Birmingham.

The UAB Academic Honor Code

UAB expects all members of its academic community to function according to the highest ethical and professional standards. Students, faculty, and the administration of the institution must be involved to ensure this quality of academic conduct. Academic misconduct undermines the purpose of education. Such behavior is a serious violation of the trust that must exist among faculty and students for a university to nurture intellectual growth and development. Academic misconduct can generally be defined as all acts of dishonesty in an academic or related matter.

Academic dishonesty includes, but is not limited to, the following categories of behavior:

ABETTING is helping another student commit an act of academic dishonesty. Allowing someone to copy your quiz answers or use your work as their own are examples of abetting.

CHEATING is the unauthorized use or attempted use of unauthorized materials, information, study aids, the work of others, or computer-related information.

PLAGIARISM means claiming as your own the ideas, words, data, computer programs, creative compositions, artwork, etc., done by someone else. Examples include improper citation of referenced works, the use of commercially available scholarly papers, failure to cite sources, or copying another person’s ideas.

FABRICATION means presenting falsified data, citations, or quotations as genuine.

MISREPRESENTATION is falsification, alteration, or the misstatement of the contents of documents, academic work, or other materials related to academic matters, including work substantially done for one class as work done for another without receiving prior approval from the instructor.

Violations of the UAB Academic Honor Code are punishable by a range of penalties, from receiving a failing grade on an assignment to an F in the course to dismissal. Any course grade of F for academic misconduct supersedes any other grade or notation for that class. Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student’s performance prior to withdrawal if the violation is substantiated.

Procedure for Suspected Violation

In the event of a suspected violation of the Academic Honor Code, UAB follows this procedure:

1. Upon reaching the conclusion that academic dishonesty may have occurred and that action is warranted, the instructor should inform the student of the charge as soon as possible. The student has the right to hear the instructor’s reasons for making the charge, to inspect all relevant evidence in the instructor’s possession, and to respond to the charge. Based on the student’s response and all the evidence, the instructor will determine if a penalty is appropriate. If a penalty is deemed appropriate, the instructor will inform the student of the action to be taken. If the student is not in agreement with the findings or the penalty, the instructor will provide the student with a written statement of the action taken and the basis for it. A copy of this letter will be sent to the chair of the department.

2. Within two weeks of this notification of a judgment of academic dishonesty, the student may appeal the instructor’s decision by letter to the chair of the department or his/her designated representative. The chair, acting expeditiously, should take testimony from the student, the instructor, and all appropriate witnesses and make a decision. If the chair reverses the finding of academic misconduct, the instructor must reexamine the work in question and assign credit without prejudice. In the event that the chair is the instructor in the course, the dean will replace the chair in the appeal process.

3. In cases where a grade of F is assigned in the course and the student has utilized the appeal process described above (in section 2), the student has two weeks to appeal the decision by letter to the dean of the school responsible for the course. The dean should acknowledge receipt of the student’s appeal and inform the student of the course of action within 10 working days of the date the appeal is received in the dean’s office. At the dean’s discretion, an advisory panel may be appointed to study the appeal and make a recommendation to the dean. However, it is the responsibility and prerogative of the dean alone to make, in a timely manner, the final decision. The decision of the dean is final.

4. In cases where the final decision concerning an academic misconduct charge is an F for the course, a letter to this effect will be sent to the Office of the Registrar and be kept on file. The course repeat policy will not apply to course grades resulting from instances of academic misconduct. In these cases, the grades of F received will be computed in the UAB grade point average.

A student who has received the grade of F for two instances of academic misconduct will be expelled from the university. Under certain circumstances, a student may be expelled on the first offense. The student will be duly informed of the pending expulsion and will be provided the opportunity to be heard. The student has two weeks after notification to file a request for an appeal hearing with the Office of the Provost. The ad hoc appeals committee will consist of two people designated by the Provost, one student appointed by the President of the USGA, and two faculty members appointed by the chair of the Faculty Senate. The Provost will designate the person to serve as chair who will coordinate and preside at all meetings. Students expelled from UAB for academic misconduct will have that noted on their transcripts.
In addition, students should consult the policies of the school/program in which they are enrolled to determine school/program guidelines and penalties regarding academic misconduct and suspension for academic misconduct. Schools that suspend a student on the first offense may post this offense on the student's UAB academic record.

A student suspended from a UAB school for academic misconduct will have a hold placed on his/her registration and will not be permitted to enroll in another UAB school without that school's permission. Some UAB programs have policies preventing enrollment of students with past academic misconduct offenses.

Note that individual schools may have academic misconduct rules in addition to the above.

Non-Academic Conduct
Your first priority at UAB is to get a great education, plain and simple. The Non-Academic Conduct Policy, maintained by the office of Student Engagement, provides the guidelines that protect your chance at getting that top-quality education by setting the standard for what it means to be a successful student.

Non-Academic Student Conduct Policy (https://www.uab.edu/students/services/advocacy-rights-and-conduct/student-conduct)

Student Engagement, specifically regarding student conduct is one of many channels that the university can use to foster the personal development of its students. In cases where a student engages in non-academic misconduct, the conduct process is also an approach that we use to protect the safety of the university community. While the conduct process does not adjudicate misconduct, it is not a legal system. The conduct process does not use the same procedures, burdens of proof, or rules of evidence as the legal systems. In order to maintain an educational tone, the university takes steps to ensure that the process is as non-adversarial as possible, while still safeguarding the rights of students. The non-academic misconduct process is an integral part of the educational mission and goals of UAB and Student Life. The Office of Student Engagement oversees and implements the non-academic misconduct process. The nonacademic misconduct process is designed to provide and help maintain an educational atmosphere with emphasis on developing individual understanding and acceptance of personal and social responsibilities; creating a sense of belonging within a welcoming environment; and challenging and supporting students to reflect, integrate, and act upon their UAB experience.


Student Complaints

Academic Matters
Judgments on academic matters are most appropriately made by individuals with expertise in the particular academic discipline involved. For this reason, complaints by students on academic matters are the responsibility of the department and school involved. Normally, such complaints can be resolved quickly through discussion with the faculty directly involved. In rare situations where such resolution does not occur, the student should contact the chair of the appropriate academic department to file a formal grievance. The student's grievance should be submitted in writing and accompanied by any appropriate documentation. Grievances should be submitted at the earliest possible time. Consideration will not be given to any grievance submitted later than the end of the term immediately following the term in which the matter in question arose. The department should acknowledge the date the grievance is received and provide notice to the student of when an answer may be expected. It is the responsibility of the department chair to provide an answer to the student within 10 working days. If the matter cannot be settled within the department, the student has 10 working days from the day the department's response is received to appeal to the dean of the school in which the department is located. The dean should acknowledge receipt of the student's appeal and inform the student of the course of action within 10 working days of the date the appeal is received in the dean's office. At the dean's discretion, an advisory panel may be appointed to study the disagreement and make a recommendation to the dean. However, it is the responsibility and prerogative of the dean alone to make, in a timely manner, a decision on any academic disputes which have not been resolved at lower levels, and the decision of the dean is final.

Non-Academic Matters
When complaints on non-academic matters cannot be settled by the persons directly involved, a written complaint should be forwarded to the appropriate office. If the administrative officer is unsuccessful in resolving the complaint, it may then be forwarded in writing to the Provost or a designee for further consideration. For specific information concerning the procedures and processes for non-academic complaints and grievances, contact the Office of Student Engagement or visit the following web site https://www.uab.edu/students/services/advocacy-rights-and-conduct/student-conduct.

Advanced Placement Credit

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### College Level Examination Program

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<td>HL</td>
<td>5</td>
<td>8</td>
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</tr>
<tr>
<td>Mathematics</td>
<td>MA 105</td>
<td>SL</td>
<td>5</td>
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<td>Music</td>
<td>MU 261</td>
<td>HL</td>
<td>5</td>
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<tr>
<td>Music</td>
<td>MU 262</td>
<td>SL</td>
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<td>HL</td>
<td>5</td>
<td>3</td>
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<tr>
<td>Philosophy</td>
<td>Core Area II Elective</td>
<td>SL</td>
<td>5</td>
<td>3</td>
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</tr>
<tr>
<td>Physics</td>
<td>PH 201, PH 202</td>
<td>HL</td>
<td>5</td>
<td>8</td>
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<tr>
<td>Physics</td>
<td>PHS 101</td>
<td>SL</td>
<td>5</td>
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<td>5</td>
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<td>Social Anthropology</td>
<td>ANTH 101</td>
<td>HL</td>
<td>5</td>
<td>3</td>
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<tr>
<td>Spanish B</td>
<td>SPA 101</td>
<td>SL</td>
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</tr>
<tr>
<td>Spanish B</td>
<td>SPA 101, SPA 102</td>
<td>SL</td>
<td>5</td>
<td>8</td>
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</tr>
</tbody>
</table>
Spanish B

SPA 101, HL 5 8 Pass
SPA 102

SPA 101, SL 6 11 Pass
SPA 102, SPA 201

SPA 101, HL 6 11 Pass
SPA 102, SPA 201

SPA 101, HL 7 14 Pass
SPA 102, SPA 201, SPA 202

Theater Arts

THR 100, HL 4 4 Pass
THR 204

Theater Arts

THR 100 SL 4 3 Pass


Completion of a Degree

On This Page

- Requirements (p. )
  - Baccalaureate Degrees (p. )
  - Residency (p. )
  - Total Credits and Averages (p. )
  - Distribution of Credits (p. )
  - Major (p. )
  - Double Major (p. )
  - Dual/Multiple Degrees (p. )
  - Second Bachelor's Degree (p. )
  - Minor (p. )
  - Individually Designed Majors and Minors (p. )
  - Limitations on Some Types of Credit (p. )
  - Bachelor's Degree with Honors (p. )
  - Procedures for Applying for a Degree (p. )
  - Graduation (p. )

Requirements

Baccalaureate Degrees

Requirements for the baccalaureate degree at UAB include at least 120 semester hours of appropriately distributed courses, a UAB GPA of 2.00, a 2.00 GPA on all college work attempted (Higher Education grade point average), and satisfaction of the Core Curriculum, major, minor (if required), and residency requirements, along with all other criteria specified by the school or department governing the major.

Students are subject to the catalog policies in effect at the time of their most recent admission as a degree-seeking student, with the following exceptions. Seven years after the date of their first enrollment as a degree-seeking student, policies of the catalog currently in effect become applicable. The student who is not enrolled at UAB for 12 consecutive months must meet the requirements of the catalog in effect at the time of re-enrollment. For courses required for the major or minor, the administering department(s) may establish written policies for the recertification of courses taken more than seven years previously.

Residency

At least 25 percent of the total semester hours required for graduation, including at least 21 of the last 30, must be taken at UAB. Courses taken as alternative credit or as a non-degree student (excluding post-baccalaureate students) may not be used to satisfy the residency requirement. A minimum of nine semester hours required for the major (at or above the 400 level) must be completed at UAB. Individual departments may have additional requirements.

Total Credits and Averages

The minimum total credit hours required for a baccalaureate degree is 120 semester hours. The student must have a higher education grade point average of at least 2.00 (C) in all credit hours attempted at all institutions including UAB and an average of at least 2.00 (C) in all credit hours attempted at UAB.

Distribution of Credits

In addition to the overall requirements mentioned above, there are important requirements for the distribution of credits. All programs of study leading to the baccalaureate degree have as an essential component a common Core Curriculum. Students majoring in the Schools of Business, Education, Engineering, Nursing, and Health Professions satisfy Core Curriculum requirements in addition to specific school requirements and requirements in their chosen major(s). In the College of Arts and Sciences students meet Core Curriculum requirements, requirements for a major specialization, and any requirements for a minor, specialization or concentration, if required.

Major

Requirements for majors vary and can be found in the sections of this catalog on the specific academic unit responsible for the major. A minimum C average in the major is required for graduation. Furthermore, the academic unit responsible for the major may require the student to repeat, or otherwise compensate for, any course required for the major in which a grade below C was earned. Majors should be declared or changed online (https://www.uab.edu/students/academics/item/833-changing-majors). Some majors are subject to additional admission requirements and enrollment limitations.

Double Major

Students who wish to double major must maintain an affiliation with one school and graduate under that school's core curriculum and major requirements. In addition, the student must complete the requirements for the second major including all prerequisites. It is important for students to maintain contact with advisors of both majors so that requirements are completed for both majors.

Dual/Multiple Degrees

A bachelor’s degree is based on at least 120 semester hours of coursework. For each additional degree, a student must complete at least 30 semester hours of work over and above the work done for the first degree. As with the first degree, work done for each additional degree must include any necessary prerequisites for the new major and all major requirements. The residency requirement must be met for each degree.

Second Bachelor’s Degree

After graduating with a bachelor’s degree, a student may earn a second bachelor’s degree by completing in residence, with an average of C or better, at least 30 semester hours of work taken subsequent to awarding...
of the first degree. Work done for the second degree must include any necessary prerequisites for the new major and all major requirements. The first degree, whether earned at UAB or another regionally accredited institution, must be based on at least 120 semester hours of fully accredited work. No minor is required for the second degree. A student interested in earning a second degree is required to have the program of study approved by the school in advance.

**Minor**

The availability of minors is indicated in the sections of this catalog on the various schools. The course requirements for the minor are specified in the catalog section for the department offering the minor. The department offering the minor may require the student to repeat, or otherwise compensate for, any course required for a minor in which a grade below C was earned. Whether a minor is required for a particular major is specified in the catalog section for the school in which the major resides.

**Individually Designed Majors and Minors**

Students with specific career goals or with unique intellectual objectives may propose majors and minors designed to meet their individual academic needs. The Individually Designed Major requires a minimum of 40 semester hours in the major, of which at least 20 semester hours must be in courses numbered at or above 300 and approved for use towards a major, with a minimum of a C average. Students are not permitted to apply the same individual course(s) to satisfy both a minor and a major. In addition, students must prepare a rationale for a nonstandard major-level course of study, complete Core Curriculum requirements, and complete any additional requirements set by the school in which the degree will be awarded. The Individually Designed Minor requires completion of 21 semester hours, of which nine semester hours must be in courses numbered at or above 300, with a minimum of a C average. The Individually Designed Major or Minor must be reviewed and approved by the departments involved, by the dean of the school in which the degree will be awarded, and by the Office of the Registrar. For advising on program development and approval procedures, consult the Office of the Registrar, registrar@uab.edu; 1605 11th Avenue South, Birmingham, AL 35294.

**Limitations on Some Types of Credit**

For some types of credit, there are limitations on the amount that can be applied toward the minimum hours required for a baccalaureate degree (usually 120 semester hours).

1. For credits transferred from a two-year college, the limit is no more than one-half the number required for a baccalaureate degree, provided that the work is freshman (100) or sophomore (200) level.
2. For alternative work, including Advanced Placement, College Level Examination Program, credit by examination, evaluation of non-collegiate-sponsored courses, credit for military services courses, International Baccalaureate credit, and credit by portfolio, the limit is no more than 45 semester hours.

**Bachelor’s Degree with Honors**

The Higher Education grade point average is used in conferring academic honors at graduation and is based on all college work attempted. Honors designations are conferred according to the following GPA Ranges:

<table>
<thead>
<tr>
<th>GPA Range</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50 - 3.69</td>
<td>cum laude</td>
</tr>
<tr>
<td>3.70 - 3.89</td>
<td>magna cum laude</td>
</tr>
<tr>
<td>3.90 or above</td>
<td>summa cum laude</td>
</tr>
</tbody>
</table>

**Procedures for Applying for a Degree**

Students are advised to file an online application for degree at least two terms prior to completing work for a baccalaureate degree. This will allow time for the application to be processed and completion of degree requirements to be verified. The absolute deadline to apply for degree is the tenth day of the term in which the student plans to graduate. Online applications are available at http://www.uab.edu/commencement/degree-applications.

**Graduation**

Official UAB graduation ceremonies are held in May for graduates of the preceding spring semester and in December for graduates of the preceding summer term and fall semester. Graduates are listed in the commencement program. Students who have completed the requirements for baccalaureate degrees are urged to attend.

Although degrees are officially conferred in April and December, students receive their diplomas approximately four weeks after the end of the regular term in which they complete their degree requirements, provided the application for degree is submitted by the published deadline. Please visit the commencement website for additional information http://www.uab.edu/commencement.

**The UAB Undergraduate Academic Experience**

**Shared Vision for a UAB Graduate**

The Shared Vision for a UAB Graduate reflects high expectations in the areas of Communication, Knowledge, Problem-Solving, and Citizenship.

**Communication - A UAB graduate**

- Participates effectively in the world of ideas and information.
- Reads with comprehension, attention to detail, and an awareness of context, tone, and interconnections with other texts, life experiences, and public events.
- Writes correctly and effectively in response to specific needs and for diverse audiences and contexts.
- Speaks effectively as determined by audience, setting, and circumstances.
- Uses information technology effectively for professional communication.

**Knowledge - A UAB graduate**

- Possesses a depth and breadth of knowledge sufficient for informed decision-making.
- Demonstrates substantial knowledge in a disciplinary major.
- Differentiates among methodologies, major ideas and figures, and specific information or issues relevant to the sciences and humanities.
- Uses effectively the technology appropriate for one’s discipline.
Problem-Solving - A UAB graduate

- Collects and evaluates data and analyzes complex issues, using appropriate methods.
- Demonstrates critical thinking skills by synthesizing information, making reasonable arguments, and arriving at logical conclusions.
- Demonstrates quantitative reasoning by interpreting data in multiple formats and applying quantitative methods to solve complex problems.
- Demonstrates the ability to achieve goals through collaboration.

Citizenship - A UAB graduate

- Is aware of contemporary issues and prepared to engage responsibly in the community.
- Understands civic responsibility and engages in informed decision-making with respect to social and political issues.
- Recognizes that values and ethics are integral to one’s academic, personal, and professional life.
- Respects the significant role of diversity in the contemporary world.

The Shared Vision for a UAB Graduate is achieved through the UAB Undergraduate Academic Experience, which begins with the first year experience and the core curriculum; continues with major courses, elective courses, and perhaps courses required for a minor or certificate; and culminates in a capstone experience.

First Year Experience

Every UAB first year student will share a common foundation for learning, whatever their majors or professional goals. This common foundation is found in the Discussion Book and the First Year Experience (FYE) course.

Discussion Book

Since 2005, UAB has selected an annual UAB Discussion Book as one focal point for uniting freshmen students, faculty, and staff of this research extensive campus. The Discussion Book has literary merit, raises complex questions, is relevant to contemporary issues, and broadens the reader’s understanding of diversity in a meaningful way. Students are able to purchase the book at the Barnes & Noble UAB Bookstore during New Student Orientation.

A presentation during the first few weeks of class, usually by the discussion book author, kicks off the Discussion Book events. It is followed up with various activities scheduled during the academic year and may be incorporated into courses, residence hall activities, and student life. The UAB Discussion Book project promotes conversation on a broad range of topics from a common foundation, with goals of civic engagement, respectful dialogue, and more knowledgeable participation in the university and society.

First Year Experience Course Requirement

Students entering UAB with fewer than 24 hours of college credit must enroll in and pass a first year experience (FYE) course in their first 24 credit hours at UAB.

FYE courses are the gateway to undergraduate education at UAB. FYE courses improve student success by helping to bridge the gap between high school experiences and university expectations and enhance successful progress towards graduation by establishing the foundations for academic achievement and holistic development. FYE courses include:

- Freshman Learning Communities
- College-, School-, or Department-focused FYE courses, which may be the required option for certain majors (check catalog requirements).

On This Page

- Core Curriculum Requirements (p. 102)
- Who is required to fulfill the Core Curriculum Requirements? (p. 102)
- Can One Satisfy Core Curriculum Requirements with Alternative Credit? (p. 102)
- What Courses Satisfy Core Curriculum Requirements? (p. 102)
- What is the relationship between the core competencies and the core curriculum courses? (p. 102)
- The UAB Core Curriculum Matrix (p. 102)
- Writing (W) (p. 102)
- Quantitative Literacy (QL) (p. 102)
- Ethics and Civic Responsibility (ECR) (p. 102)

Core Curriculum Requirements

Sometimes called general education courses, the core curriculum is a selection of required and elective courses that together promote six competencies which build the foundation for attainment of the Shared Vision for a UAB Graduate.

A graduating student should be able to demonstrate the following core competencies:

- Reading and writing skills sufficient to ensure access to information and ideas in the institution’s curriculum as well as in society at large.
- An ability to make aesthetic judgments in the arts, literature, and humanities based on relevant historical, social, or philosophical contexts.
- The ability to collect and evaluate information within the context of the scientific method and to use this ability to further one’s understanding of the natural world.
- The ability to apply mathematical skills and quantitative reasoning to solve problems and interpret information.
- The ability to reason and evaluate information within the context of the social and behavioral sciences and to use this ability to further one’s understanding of the social, economic, and political environment.
- Knowledge of contemporary and/or historical issues.

Who is required to fulfill the Core Curriculum Requirements?

- First time college freshmen who have no credit for college work (excepting credit earned while still enrolled in high school).
- Those returning UAB students or transfer students who are enrolling as a degree student after an absence from college of more than 12 months.
• Students who enrolled for the first time in any institution of higher education in Fall 1998 or later and who subsequently transferred to the University of Alabama at Birmingham.

Any student with a valid articulation contract from an Alabama two-year school will be able to enroll under the terms of the contract. Contracts prior to Fall 1998 must have been submitted to UAB’s Office of Admission according to the procedures in place at the time.

Since Fall Term 2000, all undergraduate students entering UAB have been subject to the 1998 Core Curriculum requirements.

Can One Satisfy Core Curriculum Requirements with Alternative Credit?

Students may satisfy certain Core Curriculum requirements by presenting credit earned through the following: Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP), and Credit by Examination (CBE). Students with AP, IB, or CLEP credit must have official documents sent to the Office of Enrollment Management, ATTN: Alternative Credit, 1605 Building, 1605 11th Avenue South, (205) 934-5503, for evaluation and acceptance before credit can be posted on the UAB transcript.

What Courses Satisfy Core Curriculum Requirements?

Core curriculum requirements are divided into four areas, and all students must fulfill requirements in each area. See Collat School of Business and School of Engineering sections of this catalog for their specific variations. Majors may also have specific requirements in each area, as indicated in this catalog.

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

What is the relationship between the core competencies and the core curriculum courses?

The matrix below identifies how specific core curriculum courses introduce or reinforce the desired core competencies which build the foundation for attainment of the Shared Vision for a UAB Graduate. Faculty who teach courses in the disciplines have identified these core competencies as essential for success in upper-division major courses.

UAB has chosen to place special emphasis on three essential competencies embedded in the six core competencies identified below. These targeted competencies are writing, quantitative literacy, and ethics & civic responsibility. Core courses which intentionally provide specific instruction in, practice of, and assessment of writing, quantitative literacy, and ethics & civic responsibility are identified below with a W, QL, and/or ECR.

The UAB Core Curriculum Matrix

Core Competency

Demonstrate reading and writing skills sufficient to ensure access to information and ideas in the institution’s curriculum, as well as in society at large.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
</tbody>
</table>

Core Competency

Demonstrate an ability to make aesthetic judgments in the arts, literature, and humanities based on relevant historical, social, or philosophical contexts.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
<td></td>
</tr>
</tbody>
</table>

References: Art, Literature, and Humanities

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CMST 101</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>BY 123</td>
<td>Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 124</td>
<td>Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>EH 101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>EH 216</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENV 109</td>
<td>Laboratory in Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td>FR 101</td>
<td>Introductory French I</td>
<td>4</td>
</tr>
<tr>
<td>GN 101</td>
<td>Introductory German I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 252</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHS 101</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>SPA 101</td>
<td>Introductory Spanish I</td>
<td>4</td>
</tr>
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Core Curriculum Courses In Which Practiced and Reinforced

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AAS 200</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ARH 204</td>
<td>Early Modern-Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>EH 217</td>
<td>World Literature I: Before 1660</td>
<td>3</td>
</tr>
<tr>
<td>EH 218</td>
<td>World Literature II: 1660-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 221</td>
<td>British and Irish Literature I: Before 1800</td>
<td>3</td>
</tr>
<tr>
<td>EH 222</td>
<td>British and Irish Literature II: 1800-Present</td>
<td>3</td>
</tr>
<tr>
<td>EH 223</td>
<td>American Literature I: Before 1865</td>
<td>3</td>
</tr>
<tr>
<td>EH 224</td>
<td>American Literature II: 1865-Present</td>
<td>3</td>
</tr>
<tr>
<td>FR 102</td>
<td>Introductory French I</td>
<td>4</td>
</tr>
<tr>
<td>FR 201</td>
<td>Intermediate French I</td>
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</tr>
<tr>
<td>FR 202</td>
<td>Intermediate French II</td>
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</tr>
<tr>
<td>GN 102</td>
<td>Introductory German II</td>
<td>4</td>
</tr>
<tr>
<td>GN 201</td>
<td>Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>GN 202</td>
<td>Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>GN 204</td>
<td>Readings in German Literature</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 116</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SPA 102</td>
<td>Introductory Spanish II</td>
<td>4</td>
</tr>
<tr>
<td>SPA 201</td>
<td>Intermediate Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPA 202</td>
<td>Intermediate Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>THR 100</td>
<td>Introduction to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THR 200</td>
<td>Plays on Film</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Curriculum Courses In Which Introduced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
<td>3</td>
</tr>
<tr>
<td>EH 216</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>MU 120</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>THR 100</td>
<td>Introduction to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THR 105</td>
<td>Introduction to Dance</td>
<td>3</td>
</tr>
</tbody>
</table>
Core Competency

Demonstrate the ability to collect and evaluate information within the context of the scientific method and to use this ability to further one’s understanding of the natural world.

Requirements

Core Curriculum Courses In Which Introduced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 101</td>
<td>Astronomy of the Universe</td>
<td>3</td>
</tr>
<tr>
<td>AST 102</td>
<td>Astronomy of Stellar Systems</td>
<td>3</td>
</tr>
<tr>
<td>AST 103</td>
<td>Astronomy of the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>AST 105</td>
<td>Extraterrestrial Life</td>
<td>3</td>
</tr>
<tr>
<td>BY 101</td>
<td>Topics in Contemporary Biology</td>
<td>3</td>
</tr>
<tr>
<td>CH 105</td>
<td>Introductory Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 107</td>
<td>Introductory Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 115</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 117</td>
<td>General Chemistry II</td>
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<td>PH 201</td>
<td>College Physics I</td>
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<td>General Physics I</td>
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<tr>
<td>PHS 101</td>
<td>Physical Science</td>
<td>4</td>
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</tbody>
</table>

Core Curriculum Courses In Which Practiced and Reinforced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 111</td>
<td>Astronomy of the Universe Laboratory</td>
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<tr>
<td>AST 112</td>
<td>Astronomy of Stellar Systems Laboratory</td>
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</tr>
<tr>
<td>AST 113</td>
<td>Astronomy of the Solar Systems Laboratory</td>
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</tr>
<tr>
<td>AST 115</td>
<td>Extraterrestrial Life Laboratory</td>
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<tr>
<td>BY 101</td>
<td>Topics in Contemporary Biology</td>
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<tr>
<td>BY 102</td>
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<tr>
<td>BY 112</td>
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<tr>
<td>BY 123</td>
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</tr>
<tr>
<td>BY 124</td>
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</tr>
<tr>
<td>CH 105</td>
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<td>CH 108</td>
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<tr>
<td>PH 201</td>
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<td>PH 202</td>
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<tr>
<td>PH 221</td>
<td>General Physics I</td>
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<tr>
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<td>4</td>
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</tbody>
</table>

Core Competency

Demonstrate the ability to apply mathematical skills and quantitative reasoning to solve problems and interpret information.

Requirements

Core Curriculum Courses In Which Introduced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>FR 101</td>
<td>Introductory French I</td>
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<tr>
<td>MA 105</td>
<td>Pre-Calculus Algebra</td>
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</tr>
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<td>MA 106</td>
<td>Pre-Calculus Trigonometry</td>
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</tr>
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<td>MA 107</td>
<td>Pre-Calculus Algebra and Trigonometry</td>
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<tr>
<td>MA 110</td>
<td>Finite Mathematics</td>
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<tr>
<td>PHL 120</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHS 101</td>
<td>Physical Science</td>
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<tr>
<td>SPA 201</td>
<td>Intermediate Spanish I</td>
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Core Curriculum Courses In Which Practiced and Reinforced

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<tr>
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<td>MA 126</td>
<td>Calculus II</td>
<td>4</td>
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<td>MA 227</td>
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<td>MA 252</td>
<td>Introduction to Differential Equations</td>
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<td>MA 260</td>
<td>Introduction to Linear Algebra</td>
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<td>PH 202</td>
<td>College Physics II</td>
<td>4</td>
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<tr>
<td>PH 221</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 222</td>
<td>General Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

Core Competency

Demonstrate the ability to reason and evaluate information within the context of the social and behavioral sciences and to use this ability to further one’s understanding of the social, economic, and political environment.

Requirements

Core Curriculum Courses In Which Introduced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 200</td>
<td>Introduction to African-American Studies</td>
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</tr>
<tr>
<td>ANTH 101</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 106</td>
<td>Introductory Archaeology</td>
<td>3</td>
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<tr>
<td>ENV 108</td>
<td>Human Population and the Earth's Environment</td>
<td>3</td>
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<td>ENV 109</td>
<td>Laboratory in Environmental Science</td>
<td>1</td>
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<tr>
<td>ITS 101</td>
<td>Introduction to International Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHL 100</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 115</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 116</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 120</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PHL 125</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 101</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Introduction to Comparative Politics</td>
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<tr>
<td>PY 101</td>
<td>Introduction to Psychology</td>
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<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>WS 100</td>
<td>Introduction to Women's and Gender Studies</td>
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Core Curriculum Courses In Which Practiced and Reinforced

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ANTH 120</td>
<td>Language and Culture</td>
<td>3</td>
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<tr>
<td>EC 210</td>
<td>Principles of Microeconomics</td>
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<td>EC 211</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HY 105</td>
<td>World History 1600 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>
PSC 221 American State and Local Government  3
PUH 202 Introduction to Global Health  3
PY 212 Developmental Psychology  3
SOC 245 Contemporary Social Problems  3

Core Competency

Demonstrate knowledge of contemporary and/or historical issues.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Courses in Which Introduced</td>
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<tr>
<td>AAS 200</td>
<td>Introduction to African-American Studies 3</td>
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<td>ANTH 101</td>
<td>Introduction to Cultural Anthropology 3</td>
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<td>Introductory Archaeology 3</td>
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<td>CMST 105</td>
<td>Introduction to Human Communication 3</td>
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<td>ENV 108</td>
<td>Human Population and the Earth's Environment 3</td>
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<td>ENV 109</td>
<td>Laboratory in Environmental Science 1</td>
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<td>HY 101</td>
<td>Western Civilization I 3</td>
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<td>HY 102</td>
<td>Western Civilization II 3</td>
</tr>
<tr>
<td>HY 104</td>
<td>World History to 1600 3</td>
</tr>
<tr>
<td>HY 105</td>
<td>World History 1600 to the Present 3</td>
</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877 3</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877 3</td>
</tr>
<tr>
<td>ITS 101</td>
<td>Introduction to International Studies 3</td>
</tr>
<tr>
<td>PHL 100</td>
<td>Introduction to Philosophy 3</td>
</tr>
<tr>
<td>PHL 115</td>
<td>Contemporary Moral Issues 3</td>
</tr>
<tr>
<td>PHL 116</td>
<td>Bioethics 3</td>
</tr>
<tr>
<td>PHL 120</td>
<td>Practical Reasoning 3</td>
</tr>
<tr>
<td>PHL 125</td>
<td>Introduction to Ethics 3</td>
</tr>
<tr>
<td>PUH 202</td>
<td>Introduction to Global Health 3</td>
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<td>Introduction to Psychology 3</td>
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<td>SOC 100</td>
<td>Introduction to Sociology 3</td>
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<tr>
<td>WS 100</td>
<td>Introduction to Women's and Gender Studies 3</td>
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<tr>
<td>Core Curriculum Courses in Which Practiced and Reinforced</td>
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<tr>
<td>EH 217</td>
<td>World Literature I: Before 1660 3</td>
</tr>
<tr>
<td>EH 218</td>
<td>World Literature II: 1660-Present 3</td>
</tr>
<tr>
<td>EH 221</td>
<td>British and Irish Literature I: Before 1800 3</td>
</tr>
<tr>
<td>EH 222</td>
<td>British and Irish Literature II: 1800-Present 3</td>
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<tr>
<td>EH 223</td>
<td>American Literature I: Before 1865 3</td>
</tr>
<tr>
<td>EH 224</td>
<td>American Literature II: 1865-Present 3</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Philosophy of Religion 3</td>
</tr>
<tr>
<td>PSC 221</td>
<td>American State and Local Government 3</td>
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<td>PY 212</td>
<td>Developmental Psychology 3</td>
</tr>
<tr>
<td>SOC 245</td>
<td>Contemporary Social Problems 3</td>
</tr>
</tbody>
</table>

Writing, quantitative literacy (QL), and ethics & civic responsibility (ECR) are introduced in the freshman year, reinforced in a range of mid-curricular courses designated as writing, QL, and/or ECR courses (identified as such in course listings under each program), and integrated into the capstone course in discipline-specific ways.

Writing (W)

Effective communication skills are fundamental to competent functioning across the undergraduate curriculum and in life beyond graduation. Improving writing contributes to the development of other communication competencies, such as reading and public speaking. Writing is crucial to critical thinking and effective problem-solving, as well as for the communication of knowledge. The ability to write effectively is a key skill that contributes to professional advancement, successful personal relationships, and responsible civic involvement. Writing designated courses have a “W” designation in their description. To foster this essential competency, every program ensures that its majors take a minimum of two W courses between the First Year Experience and the Capstone.

Learning Outcomes for Writing include:

1. Respond to an assigned topic in a way that shows responsible concern for an identified audience.
2. Write a logical argument that makes an unambiguous claim, marshals reasonable and appropriate evidence, and takes seriously the perspectives of others by fairly presenting and responding to alternative claims.
3. Incorporate external sources pertinent to the argument and document such sources accurately and appropriately, demonstrating academic integrity when referencing the ideas of others.
4. Demonstrate an appropriate level of competence in grammar, usage, and mechanics.
5. Accurately use the writing conventions appropriate to the discipline.

Quantitative Literacy (QL)

Quantitative literacy is fundamental to solving quantitative problems that occur in school, life, and work, and in communicating solutions to those problems to others. Quantitative literacy builds on mathematics, but unlike “pure math,” it emphasizes the application of quantitative methods in a wide variety of contexts. Quantitatively literate students are able to understand and, as necessary, interpret a problem in quantitative terms and then solve it using appropriate methods. Like verbal literacy, quantitative literacy is critical to effective citizenship, communication, and personal and social responsibility. Quantitative Literacy courses have a “QL” designation in their description. To foster this essential competency, every program ensures that its majors take a minimum of two QL courses between the First Year Experience and the Capstone.

Learning Outcomes for Quantitative Literacy:

1. Compute using arithmetic and algebra, work with units of measurement, translate verbal descriptions into mathematical form, and/or evaluate the reasonableness of quantitative assertions.
2. Interpret and construct tables, graphs, and schematic representations of relationships among objects and concepts.
3. Draw conclusions based on probabilities, costs, benefits, and risks.
4. Use quantitative evidence as a basis for reasoning, problem-solving, and argument.
5. Design empirical research, evaluate research designs, and analyze data to draw conclusions about research hypotheses.
6. Communicate quantitative information using numbers and words appropriate to the audience.

Ethics and Civic Responsibility (ECR)

The role of a university is to prepare students to function effectively and engage responsibly in both the academic community and post-graduation life. Ethical decisions should be academic, personal, and professional goals for everyone. Effective and responsible living depends upon the ability of individuals to strive for excellence, to make informed and ethical decisions, to accept responsibility for one’s choices, and to practice good citizenship as part of multiple larger social units. Ethics and Civic Responsibility courses have an “ECR” designation in their description.
To foster this essential competency, every program ensures that its majors take a minimum of two ECR courses between the First Year Experience and the Capstone.

Learning Outcomes for Ethics and Civic Responsibility:
1. Understand and practice ethical reasoning and decision-making
2. Be knowledgeable about contemporary events and issues
3. Understand civic responsibility
4. Understand the role and value of diversity

Capstone Requirement

UAB’s undergraduate programs culminate in a capstone requirement. The capstone provides a summative opportunity for students to draw upon, synthesize, and apply what they have learned to an original project and/or real life application. Depending on the discipline, the capstone may involve such components as collaborative projects, internships, service learning, fieldwork, independent research, community outreach, and/or thesis writing. In every case capstones include a set of well-defined learning outcomes, significant writing, and integration of discipline-specific competencies in quantitative literacy and in ethics and civic responsibility. Most importantly the capstone provides an enriching bridge experience for students between their undergraduate education and post-graduation lives.

All UAB students must successfully complete the capstone course or experience required by their major program or school in order to graduate.

Academic Engagement & Global Citizenship

The Office of Academic Engagement and Global Citizenship is comprised of two offices and three programs that promote academically enriching and engaging experiences for students across campus. UAB Education Abroad (p. 106) administers and establishes study abroad programs, assistance for student organization travel abroad, assistance for student travel to attend conferences that take place abroad as a UAB representative, and passport application acceptance services. The UAB Office for Service Learning and Undergraduate Research (p. 108) engages students, faculty members, and community partners into academically-based service experiences that both enrich student learning and provide community benefit. The Office also supports and fosters the research, scholarship, and creative activities across all disciplines between students and their faculty and community mentors.

Education Abroad

Director: Brian E. Johnson, Ph.D.
Coordinator: Megan K. Talpash
Contact: www.uab.edu/educationabroad | 205-975-6611

Mission

The mission of UAB Education Abroad (UABEA) is to administer and establish high-quality education abroad opportunities in order to prepare UAB students for success in the globalized world.

Description

Pursuant to our mission, UABEA engages in the activities described below.

Study Abroad: Take courses for which academic credit is received and transferred to UAB on a UABEA-supported study abroad programs. This includes academic credit for student exchanges, faculty-led programs, and non-UAB programs that feature traditional classes, research, service learning, internships, volunteerism, shadowing, clinical rotation, and observations.

Student Organizations Abroad: Travel abroad as part of a UAB student organization; including Outreach Abroad, Outdoor Pursuits, artistic performances, athletic activities, or other student organization travel. UABEA can help students register travel with the university, obtain the necessary education abroad insurance, and prepare for the trip.

Student Conference Travel Abroad: Present at or attend a conference that takes place abroad as a UAB representative. UABEA office can help students register travel with the university, obtain the necessary education abroad insurance, and prepare for the trip.

Passport Acceptance Facility: Apply for a passport conveniently on campus. UABEA is an official U S. Department of State Passport Acceptance Facility. UABEA provides assistance in applying for first-time as well as renewal passports. Passport services at UABEA are available to anyone. You do not have to be a UAB student or employee to apply for a passport at UABEA.

Destinations

Programs are available in over 45 different countries.

Dates

Programs are available for fall semester, spring semester, academic year, calendar year, and summer. Short-term programs are also available for select programs.

Languages

Programs are available in English, all of the foreign languages taught at UAB, and select languages not taught at UAB.

Eligibility

To be eligible to apply for education abroad, a student must:
1. be an enrolled UAB student;
2. be 19 years of age or older (or have parental permission);
3. have at least 30 semester hour credits completed (with 15 semester hour credits at UAB) before travel begins; and
4. be in good academic, disciplinary, and financial standing.

Programs have additional eligibility requirements, such as GPA minima, listed on the individual program webpages.

Students may petition to the Director of Education Abroad for a possible exception to the eligibility criteria.

Course Articulation

Students need to consult with UABEA before studying abroad to initiate course articulation, the process by which UAB course equivalency is determined for each course to be taken while studying abroad. Course articulation involves the student, UABEA, the host study abroad
university, and UAB department chairs and advisors all working together and commonly takes approximately one month to complete.

It is highly recommended that the students contact UABEA to begin the course articulation process at least one month before the application deadline for the selected program. Students who don’t begin the articulation process early enough prior to studying abroad, may not know how, or if, their courses abroad will count toward completion of a UAB degree.

Grade Posting

All grades earned while abroad will be posted to the student’s UAB transcript and included in GPA calculations. Letter grades are used rather than pass/fail marks. In all cases, students must participate fully in all course activities and meet all stated course requirements. Auditing of any course abroad is not permitted. The process of grade posting varies depending on the program type:

UAB Student Exchanges (http://educationabroad.uab.edu/? Program_Type_ID=1&Program_Name=Exchange&pt=%7F&pi=%7F&pc=%7F&FuseAction=Programs.SearchResults&SimpleSearch=1) are programs for which UABEA has established an exchange agreement with a university abroad. Students earn direct UAB course credit. Students on exchanges are usually mainstreamed into regular classes with the student body at their university abroad. Courses taken on student exchanges will begin with IN (“INTernational” indicating that the course took place at an international UAB student exchange location) and a two-letter subject code such as ME (Mechanical Engineering), GN (German), SP (Spanish), etc. to indicate the subject that was studied. Additionally, each of the courses is numbered 100 to 699. All courses are variable in the number of credit hours (0-15) students can receive based upon their enrollment at the host partner university. INxx courses are repeatable. INxx courses are:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INAB</td>
<td>Study Abroad Arabic</td>
</tr>
<tr>
<td>INAH</td>
<td>Study Abroad Art History</td>
</tr>
<tr>
<td>INAN</td>
<td>Study Abroad Anthropology</td>
</tr>
<tr>
<td>INAR</td>
<td>Study Abroad Art Studio</td>
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<tr>
<td>INAT</td>
<td>Study Abroad Astronomy</td>
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<td>INBE</td>
<td>Study Abroad Biomedical</td>
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<td>Study Abroad Business</td>
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<tr>
<td>INBY</td>
<td>Study Abroad Biology</td>
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<td>INCH</td>
<td>Study Abroad Chinese</td>
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<td>INCM</td>
<td>Study Abroad Communication</td>
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<td>Studies</td>
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<td>INEV</td>
<td>Study Abroad Environmental</td>
</tr>
<tr>
<td></td>
<td>Science</td>
</tr>
</tbody>
</table>

UAB Faculty-Led Programs are UAB classes that are developed and taught by UAB professors and have a field trip that takes place away from campus. The field trips are typically approximately 2 weeks in duration and the entire class, professor and students, travels together. Students earn direct UAB course credit. Some faculty leaders choose to have their students additionally earn transfer credit. For UAB Faculty-Led Programs, the instructor will assign the final grade as is normally done for any UAB class taught on campus. See the Grading Policies and Practices (p. 89) section of the UAB Catalog of Undergraduate Programs. UAB Faculty-Led Programs are designated with SA following the course title.

Non-UAB Programs are organized by a third-party education abroad provider in cooperation with a foreign university. Students receive a transcript from the foreign university or U.S. university of record and have transfer credit appear on their UAB transcript. Supported non-UAB programs are those appearing in the program list at the UABEA website. Courses taken on Non-UAB Programs will begin with INTL (“INTernational,” indicating that the course took place at an international non-UAB education abroad program location) and a two-letter subject code such as ME (Mechanical Engineering), GN (German), SP (Spanish), etc. to indicate the subject that was studied. Additionally, each of the courses is numbered 100 to 699. All courses are variable in the number of credit hours (0-15) students can receive based upon their enrollment at the host university.

UAB students wishing to participate in the Washington Center internship program, a Non-UAB Program, must receive written permission from their academic department at UAB to enroll in the UAB internship course offered by their department prior to applying to the Washington Center. After permission is granted by the student’s academic department at UAB, but before the start of the internship, the student will enroll in the UAB internship course offered by the permission-granting department at UAB and will be assigned a UAB faculty member who will act as the instructor of record. The instructor will assign a final grade as is normally done for the internship course in that UAB department. The Washington
Center also offers courses and seminars, which will not count toward a UAB degree. These other courses and seminars are for enrichment purposes only.

**Changes of Grades**

Requests for grade changes to UABEA must be accompanied by official documentation sent directly from the host university.

**Service Learning and Undergraduate Research**

**Director:** Libba Vaughan

**Office of Service Learning and Undergraduate Research** (http://www.uab.edu/servicelearning)

As a UAB student, you can explore and pursue your interests through service learning and research opportunities. Service - both local and global - and the pursuit of knowledge through research, scholarship, and creative activities are vital and core to UAB’s mission. Service learning and research opportunities are available to all students who want to engage with today’s pressing issues and problems. UAB’s Office of Service Learning and Undergraduate Research works to bring students, faculty members, and community partners together to advance student learning and provide community benefit through for-credit academic courses and non-credit campus and experiential opportunities in all disciplines across campus.

**Service Learning**

UAB is fortunate to be situated in the heart of a vibrant urban community with a large number of passionate and highly effective nonprofit organizations. The directors and staffers of these organizations – working to reduce systemic poverty, advocate for clean air and water, or increase access to healthcare, among many other issues - collaborate with UAB’s faculty members and students in academic service learning courses. Service with a local or global community partner is integrated into these courses to enhance student learning of course content, to provide community benefit, and to produce participatory citizens. You also gain real-life, hands-on experience that enables you to be a top-notch candidate in job and graduate school interviews.

The Office of Service Learning and Undergraduate Research helps students find service learning courses and meaningful long-term community service experiences. In addition, it advises and supports faculty members and community partners who are providing experiences that integrate academic learning and civic engagement.

**Service Learning Courses**

The list of service learning courses grows and changes each semester as UAB faculty are continually developing new courses and integrating service learning into existing courses. Eligibility to participate in a service learning course depends on the particular course requirements as established by the department and professor. For the most up-to-date list of research courses and professor. The list of undergraduate research courses grows and changes each semester. For the most up-to-date list of research courses available, perform an Advanced Search in the UAB Class Schedule, and select “Service Learning” in the attribute box.

**International Service Learning Opportunities**

UAB Education Abroad offers service-learning opportunities associated with study abroad programs and UAB student organization travel abroad. For details on international service learning opportunities, see www.uab.edu/educationabroad.

For More Information on Service Learning:

- Visit Heritage Hall Room 527
- http://www.uab.edu/servicelearning/
- www.facebook.com/UABServeLearn

**Undergraduate Research**

As one of the 108 institutions in the nation currently classified as a “Very High Research University” by the Carnegie Classification of Institutions of Higher Education (http://carnegieclassifications.iu.edu), UAB attracts students, faculty, and staff from all over the world to engage in groundbreaking, innovative research across the disciplines. As an undergraduate student, you have the opportunity to participate in research, investigation, performance, scholarship, or creative activities in collaboration with a mentor to enhance and illuminate your learning.

The Office of Service Learning and Undergraduate Research helps students engage in research, scholarship, and creative activities in collaboration with a faculty mentor via an academic course or through an independent project. The office also provides opportunities for students to showcase their scholarship through the Spring, Summer, and Fall Expo events. In addition, it provides programming and workshops to students and faculty members to advance, facilitate and promote undergraduate research.

**Undergraduate Research Courses**

Eligibility to participate in a research-designated course depends on the particular course requirements as established by the department and professor. The list of undergraduate research courses grows and changes each semester. For the most up-to-date list of research courses available, perform an Advanced Search in the UAB Class Schedule, and select "Undergraduate Research" in the attribute box.

For More Information on Undergraduate Research:

- Visit Heritage Hall Room 527
- https://www.uab.edu/undergraduateresearch/
- https://www.facebook.com/UABUndergradResearch/

**Early Medical School Acceptance Program (EMSAP)**

The Early Medical School Acceptance Program (EMSAP) offers superior high school seniors the assurance that after completing undergraduate studies at UAB, they will enter the UAB School of Medicine, Dentistry, or Optometry. EMSAP students can complete an excellent undergraduate program and reserve their place in UAB’s world-renowned medical programs.

To be considered for admission to EMSAP, students must have the following:

- Four years of English
- Four years of mathematics
- At least one year each of chemistry or physics and biology, preferably AP or IB level.
• A grade point average of at least 3.5 (on a 4.0 scale) in academic subjects, and
• An ACT composite score of at least 30 or the equivalent on the redesigned SAT score
• U.S. citizenship or lawful permanent residence

Selected candidates who meet the academic criteria are interviewed by members of the Admissions committee of the respective professional schools. In making its final selections, the committee considers maturity and exposure to medicine, as well as letters from teachers. Students can only apply for EMSAP programs as seniors in high school and must complete UAB’s Application for Undergraduate Admission and the EMSAP application online by December 15th. For further information, including criteria for remaining in good standing in EMSAP, please see the EMSAP web site at: http://www.uab.edu/emsap/ or contact the Office of Undergraduate Admissions, (205) 934-8221.

English Language Institute (ELI)
INTO UAB

At INTO UAB, international students join a supportive community committed to helping them integrate with ease into American university life while preparing for degree studies. Unique programs help improve academic and English language skills, and helpful faculty and staff ensure students adjust to life in the US. Students studying in the INTO UAB Center have all the benefits of campus life at an American university. Living and learning in the heart of UAB’s campus, international students develop friendships with American and international students and have access to all of the academic, social and cultural resources and activities at The University of Alabama at Birmingham.

Pathway Programs

INTO UAB offers academic Pathway programs designed to prepare students to progress with confidence to UAB undergraduate and graduate degree programs.

Academic English Program

The Academic English program at INTO UAB prepares international students for university study in the US. This academically rigorous program provides international students with high-quality English language instruction and the academic skills to succeed at UAB through development of:

• Listening
• Speaking
• Reading
• Writing
• Vocabulary and pronunciation skills
• Correct grammar usage
• Academic study skills

Program Highlights

• Intensive English instruction to prepare for university study
• Academic advising and support throughout the program
• Small class sizes
• Highly trained and experienced instructors

Program Courses

Level 1-2

• Integrated Skills
• Vocabulary Building
• Writing
• Reading

Level 3-5

• Grammar in Use
• Academic Listening and Speaking
• Academic Reading
• Academic Writing

Program Outcomes

After finishing this intensive program, successful students will be able to:

• Interact comfortably in the US classroom with professors and fellow students
• Understand US values in an academic setting
• Present their spoken and written ideas accurately and effectively in English
• Write research papers with proper use of citations and references
• Use the internet and UAB libraries databases to conduct academic research
• Read, understand and critically evaluate academic texts
• Understand and use vocabulary common to academic disciplines
• Take useful and accurate notes in academic lectures and presentations
• Develop and deliver oral presentations

Understand the Pathway Program

INTO UAB’s Undergraduate Pathway program combines intensive language study, academic skills development and academic coursework in a program designed to move students successfully through the first year of their four-year degree program of study in the US.

• The Undergraduate Pathway program is for students who:
• Want to study for an undergraduate degree in the US
• Desire additional academic, language and cultural support in order to succeed during the first year at a US university
• May need to improve English language skills
• May have a lower GPA than required for direct admission to degree program
• Meet any or all of the above criteria

In addition to intensive English instruction, Pathway students take core academic courses including math, science, writing and other courses required of all students, domestic and international. All Undergraduate Pathway courses are UAB credit-bearing courses. Undergraduate Pathway programs are available in the fall, spring and summer semesters. Some programs will require taking courses in the summer in order to complete the degree in four years. Programs such as engineering may require a fifth year to complete a bachelor’s degree.

Program Benefits
Pathway students receive the highest level of support during their transition abroad, making the program an ideal choice for international students who are driven to achieve high academic goals. Other benefits include:

- Guaranteed progression to a UAB degree program (upon successful completion of a Pathway program)
- Full integration with domestic and international students on the UAB campus
- Access to all UAB cultural events, athletic events and activities including UAB's state-of-the-art recreation center
- Classrooms and accommodations in the heart of UAB's compact and accessible campus with shopping, dining and other services located nearby
- Individual supplemental tutoring
- Highly trained and experienced university instructors
- Academic advising throughout the program

Prepare for Success

- At the end of the first year, Pathway students should be able to:
  - Communicate effectively in written and spoken English
  - Interact fully with professors and fellow students in a US classroom setting
  - Understand research, reference and citation standards for American academic papers
  - Use on-campus technology including computer hardware and software
  - Read, comprehend and critically evaluate academic texts and problems
  - Take useful and accurate notes in academic lectures

Undergraduate Pathway Programs

- Business
- Computer and Information Science
- Engineering
- General Studies
- Public Health
- Science

Graduate Pathway Programs

The innovative Graduate Pathway Programs offered at INTO UAB are designed to develop international students’ academic knowledge and strengthen their language ability and study skills, enabling them to progress successfully to a UAB graduate degree program.

There are two Pathway options for students with the equivalent of a four-year undergraduate bachelor’s degree:

Standard Pathway (two semesters)

- Students with an equivalent four-year bachelor’s degree and
- TOEFL iBT 65+, IELTS 5.5 PTEA 44 or completion of Academic English Level 4.

Accelerated Pathway (one semester)

- Students with an equivalent four-year bachelor’s degree and
- TOEFL iBT 80+, IELTS 6.5, PTEA 53

Graduate Pathway Programs at UAB:

- Master of Science in Biotechnology
- Master of Business Administration (MBA)
- Master of Science in Computer and Information Science
- Master of Engineering in Design and Commercialization
- Master of Science in Civil Engineering
- Master of Science in Electrical Engineering
- Master of Science in Materials Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Public Health

ROTC

Both the United States Army and Air Force offer Reserve Officer Training Corps (ROTC) at UAB. Air Force ROTC courses are taught on the Samford University campus.

Army ROTC

Faculty: LTC Austin, CPT Araujo, MSG Scott, SFC Marlow, Mr. Parker, Mr. Garcia, Mr. Abbott, Mrs. Byrd, Ms. Scott

The Army Reserve Officers Training Corps (ROTC) program offered at UAB under federal laws and Acts of Congress. Students may compete for two, three, or four year full tuition ROTC scholarships just by attending an ROTC class.

ROTC develops leadership and problem solving skills training, through hands-on training and classroom instruction by experienced, active-duty Army officers and non-commissioned officers. Students learn the necessary skills to become successful civilian or military professionals. Students apply leadership, organizational and personnel management skills in a variety of challenging environments.

Qualified students may obtain a commission as a Second Lieutenant, with the opportunity to serve as either full time in the active Army, or full or part time in the National Guard or U.S. Army Reserve.

Enrollment

All students are eligible to apply to the program. The Army ROTC program offers several courses that may be counted as electives. The Lower Division is designed to benefit students with a broad range of professional goals. The Upper Division leads to a presidential commission as a Second Lieutenant in the U.S. Army. Enrolled students who actively pursue a commission may earn a Minor in Military Science.
Lower Division

Lower Division courses are normally taken in the freshman and sophomore years. Veterans may take a compressed version of the Lower Division sequence in the summer as a six-week, all-expense-paid leadership seminar. Successful completion of the Lower Division gives students the credentials necessary for enrollment in the Upper Division.

Upper Division

Upper Division courses are taken during the final two years of college and include an advanced summer seminar between the junior and senior years. Students in the Upper Division are paid $450 to $500 per month while enrolled, and earn a salary for all summer internships.

Scholarship Program

Army ROTC offers opportunities for scholarships covering full tuition. Students may apply for three-year or two-year scholarships. Each scholarship covers tuition, provides an annual allotment of $1,200 for books and fees, and gives students a tax-free allowance each month classes are in session. The allowance increases each year: $300 per month during the student’s freshman year, $350 per month during the sophomore year, $450/month during the junior year, and $500 per month during the senior year. Army ROTC scholarships are awarded on the basis of merit. Family income has no bearing on eligibility for an award. For more details, see the Financial Aid section of this catalog or contact the scholarship advisor at the ROTC Department, Telephone (205) 934-8749.

Partnership in Nursing Education

Army ROTC also offers a unique scholarship opportunity for UAB School of Nursing students under the Partnership in Nursing Education (PNE) program. These scholarships not only cover tuition, books and fees, and the monthly allowance, but also guarantee progression into the upper division clinical nursing classes. Two-year, three-year, or four-year scholarships are available for all qualified nursing majors. See the Financial Aid section of this catalog or contact the scholarship advisor at the ROTC Department, Telephone (205) 934-8749.

Veterans

Students with prior military experience can fulfill credit requirements for the ROTC Lower Division sequence. If credit is granted, and provided the student is not on a three-year Army ROTC Scholarship, veterans may bypass the freshman and sophomore years of ROTC and enroll directly in the Upper Division sequence. Students with prior service may be eligible for special veteran scholarships. In addition to any financial assistance from ROTC, veterans are still qualified to receive any and all GI Bill, Army College Fund, or VEAP benefits to which they are entitled.

Simultaneous Membership Program

Students may take advantage of the Simultaneous Membership Program (SMP), which allows participation in ROTC and enlistment in the Army National Guard or Reserve at the same time. SMP Students serve as officer trainees in a Guard or Reserve unit and perform duties commensurate with the grade of Second Lieutenant. SMPs are paid at the rate of at least a Sergeant E-5 for Guard or Reserve service.

Minor in Military Science

Students who are actively pursuing a commission as a Lieutenant (active duty or reserve duty) may pursue a minor in Military Science. Contact the Department of Military Science, (205) 934-8763, or UAB Academic Programs and Policy for more information.

Honors Program

As part of the Military Honors Program, military science students with outstanding qualities of leadership, academics, and high moral character may be designated by the Professor of Military Science as “Distinguished Military Students.” Upon earning a commission as a Second Lieutenant and a baccalaureate degree, select students may be designated “Distinguished Military Graduates.”

Further Information

For further information on the UAB Army ROTC program, contact the Professor of Military Science at (205) 934-8763 or 934-8749, or visit the web site at http://www.uab.edu/armyrotc.

Air Force ROTC

The Air Force Reserve Officer Training Corps (ROTC) program provides college men and women with the opportunity to compete for a commission as a Second Lieutenant in the United States Air Force upon graduation. The program is divided into the General Military Course and the Professional Officer Course. The General Military Course includes courses offered during the first two years of the program and is open to all students without military obligation. The Professional Officer Course includes junior and senior level courses and is restricted to those who meet entry requirements or have special permission from the Professor of Aerospace Studies. Air Force ROTC students can gain confidence, leadership training, communication skills, and an appreciation for the role of the military in contemporary society. Call (205) 726-2859 for complete information.

General Military Course

The General Military Course consists of:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFS 101</td>
<td>Air Force Today</td>
</tr>
<tr>
<td>AFS 102</td>
<td>Air Force Today</td>
</tr>
<tr>
<td>AFS 201</td>
<td>Development of Air Power</td>
</tr>
<tr>
<td>AFS 202</td>
<td>Development of Air Power</td>
</tr>
</tbody>
</table>

These courses are open to all students regardless of qualifications for military service or intent to compete for commission. As part of the General Military Course, students examine the basic organization and structure of the Air Force, appreciate the historical significance of air power, apply basic communication skills, and receive an introduction to total quality management. Each course is one semester hour credit.

Additional Programs

ROTC cadets also compete for additional training programs such as FREEFALL (parachuting), SOAR (glider training), ASSIST (Officer Shadow Program), Nurse Orientation Program (NOP), Flight Nurse NOP, Survival Training, Overseas Base Orientation, and Engineering Orientation Program. These programs take place between the freshman-sophomore and junior-senior years. They allow cadets to see real-world Air Force officers operating on a daily basis and provide exposure to opportunities they might not otherwise receive.
Scholarship Programs

Four-year college scholarships are available to highly qualified high school seniors. Interested students should contact their local Air Force recruiter or the nearest Air Force ROTC program for application booklets. Applications are due by December 1 of the senior year in high school.

Three-year and two-year scholarships are also available to college students. Air Force ROTC scholarships pay college tuition, laboratory fees, incidental fees, and books. Scholarship students also receive a monthly tax-free stipend ranging from $150 to $400 depending on academic year in school. Family income has no bearing on eligibility for an award. For additional information, contact the Aerospace Studies Department at (205) 726-2859. Uniforms and textbooks for all aerospace studies courses are provided at no charge.

Leadership Laboratory

Leadership Laboratory is an integral part of the Air Force ROTC program. It provides an opportunity for students to apply classroom teachings to actual environments. Each course has an associated leadership laboratory. The laboratory meets for two hours each week during the term. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop leadership potential. Leadership Laboratory involves a study of the life and work of Air Force junior officers. Students develop their leadership potential in a practical, supervised laboratory, which typically includes field trips to Air Force installations throughout the United States.

The first two years of Leadership Laboratory involve activities classified as initial leadership experiences. This includes studying Air Force customs, courtesies, drill, and ceremonies; giving military commands; instructing, correcting, and evaluating the preceding skills; studying the environment of an Air Force base; and learning about career opportunities available to commissioned officers. The last two years of Leadership Laboratory consist of activities classified as advanced leadership experiences. They involve planning, organizing, coordinating, directing, and controlling the military activities of the cadet corps; preparing and presenting briefings and other oral and written communications; and providing interviews, guidance, and information to increase the understanding, motivation, and performance of other cadets.

Field Training

Air Force ROTC field training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of field training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of field training prior to enrollment in the Professional Officer Course. The major areas of study in the four-week field training program include officership training, aircraft and aircrew orientation, career orientation, survival training, base functions and the Air Force environment, and physical training. The major areas of study included in the six-week field training program are essentially the same as those conducted in four-week field training and in the General Military Course, including Leadership Laboratory.

Minor Requirements for Aerospace Studies

To earn a Minor in Aerospace Studies, the student must have a 3.0 GPA or better in all Aerospace Studies courses, and a “C” or better in all required classes. No grade below a “C” will count towards the Minor in Aerospace Studies. This must include at least two courses of the Military Science 300 Sequence (6 semester hours), and two courses of the Military Science 400 sequence (6 semester hours).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>All courses must take accompanying Leadership Lab</td>
<td></td>
</tr>
<tr>
<td>AFS 101 Air Force Today &amp; 101L and Leadership Laboratory I ¹</td>
<td>1</td>
</tr>
<tr>
<td>AFS 102 Air Force Today &amp; 102L and Leadership Laboratory II ¹</td>
<td>1</td>
</tr>
<tr>
<td>AFS 201 Development of Air Power &amp; 201L and Leadership Laboratory III</td>
<td>1</td>
</tr>
<tr>
<td>AFS 202 Development of Air Power &amp; 202L and Leadership Laboratory IV</td>
<td>1</td>
</tr>
<tr>
<td>AFS 300 Field Training ¹</td>
<td>2</td>
</tr>
<tr>
<td>AFS 301 Air Force Leadership and Management &amp; 301L and Leadership Laboratory V</td>
<td>3</td>
</tr>
<tr>
<td>AFS 302 Air Force Leadership and Management &amp; 302L and Leadership Laboratory VI</td>
<td>3</td>
</tr>
<tr>
<td>AFS 401 National Security Policy &amp; 401L and Leadership Laboratory VII</td>
<td>3</td>
</tr>
<tr>
<td>AFS 402 Air Force Policy and Process</td>
<td>3</td>
</tr>
<tr>
<td>AFROTC Field Training NOT WAIVERABLE.</td>
<td></td>
</tr>
<tr>
<td>Failure to successfully complete Field Training will prevent a student from earning a Minor in Military Science.</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

¹ AFS 250 Field Training (6) may be substituted for AFS 101, AFS 102, AFS 201, AFS 202, and AFS 300

Minor Requirements for Military Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>EH 205 Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>Any Introductory Foreign Language course</td>
<td>3</td>
</tr>
<tr>
<td>MS 301 Military Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MS 301L Leadership Lab</td>
<td>0</td>
</tr>
<tr>
<td>MS 302 Military Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MS 302L Leadership Lab</td>
<td>0</td>
</tr>
<tr>
<td>MS 327 American Military History</td>
<td>3</td>
</tr>
<tr>
<td>MS 401 Military Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MS 401L Leadership Lab</td>
<td>0</td>
</tr>
<tr>
<td>MS 402 Military Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MS 402L Leadership Lab</td>
<td>0</td>
</tr>
<tr>
<td>ROTC Cadet Leadership Course (CLC) - Not Waiverable</td>
<td></td>
</tr>
<tr>
<td>Failure to successfully complete CLC will prevent a student from earning a Minor in Military Science. This is a required summer training program for 33 days of training and evaluation in skills and leadership ability, conducted at Ft. Knox, Kentucky.</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>24</td>
</tr>
</tbody>
</table>

University Academic Success Center (UASC)

The University Academic Success Center (UASC) promotes and fosters student success, enhances academic performance, and inspires students to achieve their academic, professional, and personal goals. Our resources are intentionally designed to facilitate experiences that
encourage student persistence and prepare students for life after graduation.

**Academic Services**

**Exploratory Advising**

Academic advising at UAB supports the teaching and learning mission of the University by guiding students through their academic journey and helping students understand the value of achieving their goals in and out of the classroom. The Exploratory Advising initiative was designed specifically for those students who have not declared a major and want to think more critically about UAB's degree-granting programs. Our team of Academic Advisors are professionally trained to assist you as your prepare to declare your major and define your career interests. We feel strongly that Academic advising captures the essence of a student’s potential by focusing on the development of a mutually beneficial academic and graduation plan of action. To make an appointment with your Academic Advisor, please visit us here. ([https://www.uab.edu/students/academics/student-success/who-is-my-advisor](https://www.uab.edu/students/academics/student-success/who-is-my-advisor))

**Supplemental Instruction**

Supplemental Instruction (SI) is an academic support model that utilizes peer-assisted study sessions to improve student retention and success within targeted, historically difficult courses. The weekly review sessions are facilitated by "SI Leaders", students who have previously done well in the course (received an A or B) and who attend all class lectures, take notes, and act as model students. The program encourages collaborative learning and shows students how to integrate course content and study skills. SI is a free and voluntary service that provides a non-remedial approach to learning since it targets high-risk courses rather than high-risk students.

Supplemental Instruction is proven to work and improves student outcomes by half to a whole letter grade in comparison studies of the GPAs of SI attendees versus non-SI attendees. This model is widely applicable across disciplines. More information on SI can be found here. ([https://www.uab.edu/students/academics/student-success/supplemental-instruction](https://www.uab.edu/students/academics/student-success/supplemental-instruction))

**Academic Coaching**

Academic Coaching is facilitated by a UASC Academic Coach and takes place in a one on one session with a student. Sessions are conducted in an effort to identify and assess any external factors that may be impairing a student’s overall success at UAB. Students will attend 3-5 sessions (more if applicable) throughout the semester to create and track implementation of an academic success plan based on their individual needs. The goal of academic coaching is to provide the student with the skills and resources necessary in all areas directly correlated to academic and overall student success. Appointments can be made online here. ([https://mytutor.uab.edu:4443](https://mytutor.uab.edu:4443))

**Tutoring**

The University Academic Success Center provides free course-specific tutoring services to UAB undergraduate students. Tutoring is offered in both one-on-one and group sessions. Our tutoring sessions are tailored to address undergraduate students’ questions and needs as we aim to foster independent learning. Appointments can be made online here. ([https://mytutor.uab.edu:4443](https://mytutor.uab.edu:4443))

**Academic Success Workshops**

Academic success workshops are designed to provide students with an interactive experience that will enhance their academic learning. Workshops are organized by topic and designed to meet the demands of college-level academics. Common topics presented are related to Study Skills, Learning Styles and Strategies, Time Management, etc. All workshops are facilitated by faculty or staff at UAB and are offered throughout the semester. The schedule of events may be viewed here.

For more information or to make an appointment, please stop by the University Academic Success Center ([http://www.uab.edu/success](http://www.uab.edu/success)) on the second floor of the Education building, 901 13th Street South, or please call 934-8184.

**Collat School of Business**

**Dean: Eric P. Jack**

**Senior Associate Dean: Karen N. Kennedy**

UAB’s Collat School of Business is accredited at the baccalaureate and master’s levels by AACSB International and holds separate AACSB International accreditation of the undergraduate and master’s programs in accounting. Professional education in business administration is offered through the Departments of Accounting and Finance; Management, Information Systems, and Quantitative Methods; Marketing, Industrial Distribution, and Economics; as well as the Graduate School of Management. In designing the school’s programs, the faculty recognizes the importance of meeting the many and diverse educational needs of the urban environment in which the school functions. Additionally, faculty members are involved in activities that (1) advance knowledge in business and assist city, state, and regional constituencies through theoretical and applied research; and (2) maintain a continuing relationship with the community through participation in professional societies, consulting, conferences, non-credit courses, and other service roles.

At the undergraduate level, the school offers programs of study leading to the Bachelor of Science degree with majors in accounting, economics, finance, industrial distribution, information systems, management, and marketing. Each program combines a broad exposure to the arts and sciences with comprehensive preparation in all areas of business. In addition, recognizing the undeniable advantage of practical experience as part of a rich academic program, all degree-seeking students engage in one of several options for Experiential Learning credit. Those options include internship (paid or volunteer), study abroad, a business analysis project, a service learning project, a research project, or completion of the Business Honors Program. Students work with their academic advisor to determine which option is most appropriate.

At the graduate level, the Graduate School of Management offers programs of study leading to the Master of Business Administration, Master of Accounting, and Master of Science in Management Information Systems degrees. Programs resulting in a dual degree are offered in cooperation with the School of Public Health (MPH/MBA) and the School of Health Professions (MSHA/MBA). The Ph.D. degree in administration/health services is offered in cooperation with the School of Health Professions.
Mission, Vision and Values Statements

Mission Statement
We create and disseminate business knowledge that transforms the lives of our students and stakeholders by leveraging our locational advantages for the benefit of our local, national and global constituents.

Vision Statement
We strive to be a renowned business school focused on leadership, innovation and entrepreneurship.

Values Statement
We value:

- Quality teaching, research, and professional and public service by faculty, staff, and students;
- Relevance and innovation in curriculum, instructional methods, research, and professional and public service;
- Intellectual growth, professional and ethical development of our students;
- A collegial environment of academic freedom and faculty governance;
- Partnerships with our internal and external constituencies;
- Diversity in our students, faculty, staff and community;
- High standards of professional, ethical conduct; and a climate that fosters continuous improvement.

Admission Requirements

Beginning Freshmen
Beginning freshmen, admitted with conditional or unconditional status, may enroll in the Collat School of Business.

Two-Year College Transfers
Students considering transferring to UAB from a two-year college should consult with their two-year college advisor about specific courses that are transferable to UAB and the Collat School of Business. UAB’s Collat School of Business requirements include those defined in the Alabama General Studies articulation program for a major in business. The public speaking requirement may be taken as part of Area II and the pre-calculus course may be taken as part of Area III. Students planning to major in industrial distribution should see the footnoted exceptions to the Core Curriculum requirements in regard to elective hours.

In cases where enrollment has been interrupted by one year or more, transfer students are expected to meet catalog requirements in effect at the time that they enter UAB.

Only 60 applicable semester hours of two-year college coursework can be applied toward a UAB degree.

Transfers from Other Institutions
Admission to the Collat School of Business is open to those students who are admitted to UAB as degree-seeking or as non degree-seeking students. Students must have a minimum 2.0 cumulative grade point average. Before an upper-level business course may be attempted, a minimum grade of C in the stated prerequisite(s) for the Collat School of Business course(s) is required.

Transfers within UAB
Degree-seeking students changing their major from schools and the college within UAB will be admitted to the Collat School of Business provided they have a minimum 2.0 overall grade point average. Before an upper-level business course may be attempted, a minimum grade of C in the stated prerequisite(s) for the Collat School of Business course(s) is required.

Students Readmitted to UAB
Degree-seeking students, non-degree seeking students and post-baccalaureate students readmitted to UAB may be admitted to the Collat School of Business.

Former students are expected to meet catalog requirements in effect at the time they re-enter UAB, when one year or more of enrollment at UAB has lapsed or when another college has been attended since last enrolling at UAB.

Non-Degree Seeking Students
Admission of non degree-seeking students to the Collat School of Business is restricted to those students who already have a four-year degree from a regionally accredited college or university.

The following policies apply:

1. Post-baccalaureate students not seeking a UAB business degree will be classified in the major that was selected on the application or as a Collat School of Business undeclared major. They may enroll in any undergraduate business course in which the stated course prerequisite(s) has been completed with a minimum grade of C. Students having less than a C in prerequisite courses or those who completed the prerequisites many years earlier are advised to repeat the prerequisites (see specific major for any deviation).

2. Post-baccalaureate students seeking a UAB undergraduate business degree will be classified in the appropriate major. Once the decision to seek a business degree is made, post-baccalaureate students are expected to meet all catalog requirements in effect at the time of their admission or readmission to UAB.

3. Students are responsible for providing transcripts to their advisors for verification of prerequisites.

Transient Students
Transient students who wish to attempt Collat School of Business courses should be aware of the following:

1. It is the student’s responsibility to verify with the advisor at the home institution that courses taken at the Collat School of Business will transfer back to the home institution.

2. Note that if enrolled in a business course that fills and there is degree-seeking student demand, the transient students are withdrawn from the filled class.

Are you considering a transfer to UAB and the Collat School of Business? Please make an appointment with one of our advisors (205-934-8813). Remember to bring an unofficial copy of all previous college work to be able to discuss your course of study with the advisor.

All information regarding our business programs and the Collat School of Business is available at http://www.uab.edu/business/. You may check
about class availability on BlazerNet, select the Student Services tab and scroll to class schedule.

Admission Classification

Undergraduate students entering the Collat School of Business are admitted with a self-selected major classification. Majors include accounting, economics, finance, industrial distribution, information systems, management and marketing. Student's may explore business majors while classified as undeclared business majors. Freshmen are expected to choose a degree granting major prior to completion of 60 semester hours. Transfer students who have earned 60 credit hours prior to entering UAB and are admitted as undeclared business majors must choose a degree granting major within two terms of enrollment at UAB.

Lower level prerequisite business courses must be completed with a grade of C or better before attempting upper-level business courses (those numbered 300 or higher). Any request for deviations from the requirements must be petitioned through the academic advisor for the department in which the course resides.

Collat School of Business advisors are available within each academic department in the Business-Engineering Complex or by telephone (205) 934-8813.

Curriculum Outline

The Collat School of Business reserves the right to modify curricula and specific courses of instruction, to alter requirements for graduation, and to change the majors to be awarded at any time the school may determine. Such changes may be applicable to either prospective or currently enrolled students.

The curriculum outline that follows is formatted to show how course requirements of the Collat School of Business concur with the UAB Core Curriculum requirements. Students, in cooperation with their advisor, should sequence these requirements in a manner to meet stated prerequisite requirements for specific courses in their curriculum.

UAB CORE CURRICULUM REQUIREMENTS

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

Business students should take the following courses in the Core Curriculum.

1. Core Curriculum Area II: Humanities and Fine Art: CMST 101
2. Core Curriculum Area II: Humanities and Fine Art, select one of the following:
   a. ARH 101 The Art Experience
   b. MU 120 Music Appreciation
   c. THR 100 Introduction to the Theatre.
3. Core Curriculum Area III: Natural Science and Mathematics, select one of the following:
   a. MA 105 Pre-Calculus Algebra
   b. MA 125 Calculus I.

Lower Level Collat School of Business Requirements

Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 305 Professional Development for Today's Workplace</td>
<td>5</td>
</tr>
<tr>
<td>or AC 305 Professional Development in Accountancy</td>
<td></td>
</tr>
<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 403 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>or DB 320 Distribution Management</td>
<td></td>
</tr>
<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>International Business</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following:

- EC 407 International Economics
- FN 412 International Financial Management
- MG 415 International Business Dynamics
- MK 416 International Marketing
- AC 440 International Accounting; From a User's Perspective

Major Courses

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110 Essentials of Financial Literacy</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>BUS 305 Professional Development for Today's Workplace</td>
<td>5</td>
</tr>
<tr>
<td>or AC 305 Professional Development in Accountancy</td>
<td></td>
</tr>
<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 403 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>or DB 320 Distribution Management</td>
<td></td>
</tr>
<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>
Students should process all repeats before applying for degree to insure a correct graduation GPA calculation.

Economics, Industrial Distribution, Management, and Marketing Majors

1. Earn at least a cumulative 2.0 GPA in all courses required for the above listed majors.
2. Earn a cumulative 2.0 GPA (transfer and UAB courses).
3. Earn a 2.0 GPA at UAB.

Students may opt to utilize the university’s course forgiveness policy to calculate the GPA for economics, industrial distribution, management, and marketing majors. Using this policy, courses taken at UAB may be repeated at UAB, and the grade for the first attempt will be excluded from the calculations of the GPA. Only courses for which the student has received a grade of C or below may be repeated with this option. The transcript will show the original grade for the course and the repeated grade for the course, however, only the grade points and credit hours earned when the course is repeated will be counted toward degree completion and averaged into the student’s GPA. The forgiveness policy may be used a maximum of four (4) times, only once for any course, allowing a student to use the forgiveness for four different courses.

Students should process all repeats before applying for degree to insure a correct graduation GPA calculation.

Residency Requirement

Of the 21 to 27 semester hours of upper-level major courses required for a departmental major, at least 15 semester hours must be completed at UAB. In addition, 50 percent (30 to 33 semester hours) of business hours required must be taken at UAB. These hours exclude nine hours of economics and six hours of statistics.
Minors in Business

The Collat School of Business offers minors in accounting, business administration, economics, finance, information systems, management, and marketing, and sports and entertainment marketing. These minors are available to all UAB students with the exception of the minors in international business and in sports and entertainment marketing which are available only to School of Business majors.

The following requirements apply to minors:

1. Students must meet the following grade point requirements:
   • Have a 2.0 cumulative GPA (includes all schools attended)
   • Have a 2.0 UAB GPA
2. Students must have the following:
   • A minimum grade of C in all lower level business courses required for the minor, including minor courses transferred. All minors allow the use of the university’s course forgiveness policy;
   • A minimum overall average of C in UAB business courses required for the minor, (check specific minor for any deviations)
   • At least 12 semester hours of the minor courses taken in the Collat School of Business (the accounting, finance, and information systems minors have additional requirements).
3. All required 200-level business courses listed for selected minor must be completed, with a grade of C, prior to enrollment in the 300 and 400-level courses listed (check specific minor for any deviations)
4. Students may enroll and receive a grade of (A, B, C, D, or F) for any business course a maximum of 2 (two) times only.
5. Students who wish to take upper-level business courses other than those specified in the selected minor must meet all prerequisites for those courses and have permission from the Collat School of Business.
6. Collat School of Business majors may also earn a business minor, with the exception of the minor in Business Administration. The minor must include at least nine semester hours beyond the requirement of the student’s selected business major. The Collat School of Business undergraduate advisors can assist business majors in tailoring a business minor.

Minor Requirements for Accounting

Must earn a grade of "C" or better and overall GPA of 2.0 in all courses required for this minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Lower-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>AC 200 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>AC 201 Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>Accounting Upper-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>AC 300 Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>AC 304 Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>AC 310 Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>AC 401 Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

Minor Requirements for Business Administration

Requirements

<table>
<thead>
<tr>
<th>Business Administration Lower-Level Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Must earn a grade of &quot;C&quot; or better in these courses</td>
<td></td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>Business Administration Upper-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>Must earn a grade of &quot;C&quot; or better in BUS 310 &amp; 311 and have overall GPA of 2.0 in all courses required for this minor.</td>
<td></td>
</tr>
<tr>
<td>BUS 310 Accounting and Finance for Nonbusiness Majors</td>
<td>3</td>
</tr>
<tr>
<td>BUS 311 Creating &amp; Delivering Customer Value</td>
<td>3</td>
</tr>
<tr>
<td>BUS 410 Integrating Business Functions</td>
<td>3</td>
</tr>
<tr>
<td>Business Administration Electives</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following. Alternate 300/400 business courses may be selected with advisor approval (must earn an overall GPA of 2.0 in these courses.).</td>
<td>6</td>
</tr>
<tr>
<td>BUS 350 Business Communications</td>
<td></td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>EC 211 Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>EC 320 Behavioral Economics</td>
<td></td>
</tr>
<tr>
<td>FN 101 Personal Finance</td>
<td></td>
</tr>
<tr>
<td>LS 246 Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior</td>
<td></td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

1 Approved elective can substitute for BUS 410.

Minor Requirements for Economics

Must earn a grade of "C" or better and have an overall GPA of 2.0 in these courses.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics Lower-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 211 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>QM 214 Quantitative Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>Economics Upper-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>EC 304 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 305 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Economics Upper-Level Electives</td>
<td></td>
</tr>
<tr>
<td>Select one 300-level or higher Economics (EC) course.</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

Minor Requirements for Entrepreneurship

The Minor in Entrepreneurship is intended to prepare non-business students for new economic realities by providing a foundation in business and entrepreneurial thinking. It is intended to complement the core knowledge they are gaining in their chosen major so that they can find new opportunities to practice within their field. The primary objective is to provide non-business majors with the tools they need to think and act entrepreneurially.
Eligibility
This minor is open to all students with a major in a field other than business. Students must also have a minimum overall 2.0 GPA.

Course Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>ENT 270 Idea to Entrepreneur</td>
<td>3</td>
</tr>
<tr>
<td>BUS 310 Accounting and Finance for Nonbusiness Majors</td>
<td>3</td>
</tr>
<tr>
<td>BUS 311 Creating &amp; Delivering Customer Value</td>
<td></td>
</tr>
<tr>
<td>ENT 425 Entrepreneur to Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>ENT 426 Practicum in Commercialization</td>
<td>3</td>
</tr>
<tr>
<td>or ENT 445 Entrepreneurship Internship</td>
<td></td>
</tr>
<tr>
<td>or ENT 499 Directed Study in Entrepreneur</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

Minor Requirements for Finance

Must earn a grade of "C" or better and have an overall GPA of 2.0 in all courses required for this minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance Lower-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>AC 200 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>Finance Upper-Level Requirement</td>
<td></td>
</tr>
<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>Finance Upper-Level Elective</td>
<td></td>
</tr>
<tr>
<td>Select three 300-level or higher Finance (FN) courses.</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>21</td>
</tr>
</tbody>
</table>

Minor Requirements for Information Systems

Must earn a grade of "C" or better in each course and an overall GPA of 2.0 in all courses required for this minor.

IS Minor #1 for Business Majors

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 204 Introduction to Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>IS 301 Introduction to Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 302 Enterprise Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 321 Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MG 417 Project Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

IS Minor #2 for Computer Science Majors

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Systems Lower-Level Requirements</td>
<td></td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Information Systems Upper-Level Electives</td>
<td></td>
</tr>
<tr>
<td>AC 200 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>LS 246 Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

Minor Requirements for Marketing

Must earn a grade of "C" or better and have an overall GPA of 2.0 in all courses required for this minor.

IS Minor #3 for All Other Majors

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 204 Introduction to Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>IS 301 Introduction to Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 302 Enterprise Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 321 Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MG 417 Project Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

Minor in Management for Business Majors

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 401 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 409 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 413 Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>MG 425 Managing Through Leadership</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

Minor in Management for Non-Business Majors

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 401 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 409 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 413 Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>MG 425 Managing Through Leadership</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

Minor Requirements for Marketing
Marketing Upper-Level Requirements
MK 303  Basic Marketing  3

Marketing Upper-Level Electives
Select two 300-level or higher Marketing (MK) courses.  6

Total Hours  21

Minor Requirements for Quantitative Methods
Must earn a grade of “C” or better and have an overall GPA of 2.0 in all courses required for the minor.

Requirements  Hours
Quantitative Methods Lower-Level Requirements
EC 210  Principles of Microeconomics  3
EC 211  Principles of Macroeconomics  3
QM 214  Quantitative Analysis I  2
QM 215  Quantitative Analysis II  3
BUS 101  Introduction to Business  3

Quantitative Methods Upper-Level Requirements
Select two of the following courses  6
QM 400  Survey of Management Science
QM 410  Nonparametric Statistics
QM 420  Applied Forecasting
QM 425  Applied Regression Analysis
QM 442  Statistics for Quality and Productivity

Total Hours  21

1 EC 210 & EC 211 may also apply to Core Curriculum Area IV; check the Core Curriculum for your particular major.
2 Note that the prerequisite for QM 214 is MA 105 with a C.

Minor in Management - Human Resources

Requirements  Hours
BUS 101  Introduction to Business  3
or BUS 102  Business Foundations  3
MG 302  Management Processes and Behavior  3
MG 409  Human Resource Management  3
MG 411  Compensation Administration  3
MG 412  Employee Selection and Development  3
MG 413  Employment Law  3

Total Hours  18

Minor in International Business
The international business minor is available only to Collat School of Business majors. It supplements the student’s major with an appreciation of the global economy and issues unique to doing business on a worldwide basis. The minor includes a required foreign language component. The international business minor consists of the following 18 semester hours.

Must earn a grade of “C” or better in stated prerequisite courses and have an overall GPA of 2.0 in all courses required for this minor.

Requirements  Hours
Major Requirement

Minor Requirements for Sports and Entertainment Marketing

Must earn a grade of “C” or better and have an overall GPA of 2.0 in these courses.

Requirements  Hours
Lower level requirement
BUS 101  Introduction to Business  3
or BUS 102  Business Foundations  3

Upper level requirements
MK 303  Basic Marketing  3
MK 330  Professional Selling  3
MK 401  Social Media in Marketing  3
MK 333  Sports Marketing  3
MG 430  Management and Leadership in Sports Organizations  3

Total Hours  18

UAB Professional Sales Certificate Program

Purpose
The Professional Sales Certificate is designed for undergraduate students of all majors pursuing a sales career or wishing to enhance his/her interpersonal communication skills in a business environment. This program helps students distinguish themselves as committed professionals in sales and customer service. In addition to the course
work shown below, students will be involved in out-of-class activities, including job shadowing and mentorship. Students with a Professional Sales Certificate are well-prepared for entry-level sales careers and have a competitive advantage in the job market. All majors from across UAB are eligible to compete for entrance. Classes are kept small to ensure individual attention is provided for each student.

Eligibility
Submission of completed application form, available in BEC 219 or from one of the contact people below:

- Resume demonstrating characteristics that support a successful sales career (strong work ethic, etc);
- Achievement of an overall 2.0 G.P.A. and be in good academic standing with the university;
- Commitment to extra-curricular involvement in the Professional Sales Program activities;
- Complete a panel interview with the Professional Sales Program Leadership Team members.

Professional Sales Certificate Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA requirement</td>
<td>A 2.0 overall GPA is required in certificate courses.</td>
</tr>
<tr>
<td>Certificate Courses</td>
<td></td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102 Business Foundations</td>
<td></td>
</tr>
<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td></td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 420 Sales Management</td>
<td></td>
</tr>
<tr>
<td>MK 425 Advanced Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>One course covering industry structure</td>
<td></td>
</tr>
<tr>
<td>MK 320 Industrial Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>FN 452 Management of Financial Intermediaries</td>
<td></td>
</tr>
<tr>
<td>DB 495 Distribution Directed Studies Practicum</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

Benefits
In addition to the shadowing, business contacts, and internship opportunities in the program, students will graduate with valued sales and service skills. Earning a Professional Sales Certificate differentiates students in a competitive hiring environment.

Contacts
Ms. Kristen Craig kraig@uab.edu
Dr. Tom DeCarlo tdecarlo@uab.edu
Dr. Karen Kennedy knk@uab.edu
Dr. Kenneth Miller kmiller@uab.edu
Dr. Bob Robicheaux bobr@uab.edu

Certificate in Entrepreneurship

Purpose
Economic conditions at the national, regional, and local level increasingly call for new business models and emerging industries. Entrepreneurship not only focuses on the generation of these new business models but it also recognizes the importance of innovative thinking and risk-taking to take advantage of opportunities and to effect change. This certificate is intended to provide business majors with specific knowledge and skills to start their own businesses or be high-value, early employees for existing startups and early-stage growth companies.

Eligibility
Open to all students majoring in business. Students must have an overall GPA of 2.5 or higher to be admitted to this certificate program.

Certificate in Entrepreneurship Course Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT 270 Idea to Entrepreneur</td>
<td>3</td>
</tr>
<tr>
<td>ENT 420 Entrepreneurial Finance</td>
<td>3</td>
</tr>
<tr>
<td>ENT 421 Entrepreneurial Market Analysis and Planning</td>
<td>3</td>
</tr>
<tr>
<td>ENT 424 New Product Development</td>
<td>3</td>
</tr>
<tr>
<td>or ENT 425 Entrepreneur to Enterprise</td>
<td></td>
</tr>
<tr>
<td>ENT 426 Practicum in Commercialization</td>
<td>3</td>
</tr>
<tr>
<td>or ENT 445 Entrepreneurship Internship</td>
<td></td>
</tr>
<tr>
<td>or ENT 499 Directed Study in Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

Honors in Business

Purpose
The Collat School of Business Honors Program is designated for qualified and self-motivated students pursuing business-related undergraduate degrees or otherwise having a demonstrated interest in business. Through a mentored program format, students will develop research and communication skills in preparation for a professional career and/or graduate study. Although students may focus their research into any of the disciplines in the Collat School of Business, the Business Honors Program has overarching themes of leadership and ethics.

Eligibility
Entry into the Collat School of Business Honors Program is by invitation. Students may apply to be considered for an invitation.

To be eligible for the Collat School of Business Honors Program, students must:

- Have earned a 3.5 GPA in all business courses attempted;
- Have earned a 3.0 GPA overall;
- Have a major in the Collat School of Business or be invited to submit an application;
- Have submitted a Business Honors Program Application form or be invited to submit an application;
- Have been selected from application, transcript evaluation and recommendations.

Requirements

- Enroll Spring Semester of junior year in BUS 300 Introduction to Leadership Seminar for 3 credit hours;
- Enroll Fall Semester of senior year in BUS 495, Business Honors Seminar I, for three credit hours and enroll Spring Semester of senior year in BUS 496 Business Honors Seminar II, for three credit hours;
- An oral presentation of a completed independent research project at the Undergraduate Research Expo.
Benefits
In addition to educational benefits and enhanced credentials for graduate school or professional pursuits, students with business majors will graduate “With Honors in Business” or “With Honors in Economics”.

Contact
For more information and/or admission to the Collat School of Business Honors Program, contact:

Collat School of Business Honors Program
Director
1720 2nd Avenue, South/ BEC 217A • Birmingham, AL 35294-4460 • Telephone (205) 934-8845 • E-mail: businesshonors@uab.edu

Department of Accounting and Finance

Department Chair: Arline Savage
The Department of Accounting and Finance is responsible for activities in accounting and finance.

Mission Statement
The Department of Accounting and Finance is committed to providing a high-quality, practice-oriented educational experience to a largely urban population. The department will offer an educational foundation that will prepare students for professional careers or enable them to pursue graduate studies. The department will contribute to the understanding and application of knowledge through the scholarship activities of the faculty. The department will maintain a continuing relationship with the professional community while supporting the internal activities of the University.

Uniform CPA Exam
As of January 1, 2016, the State of Alabama requires that applicants for the Uniform CPA Exam hold a baccalaureate degree from an accredited institution and possess a total of 120 semester hours of post-secondary education, including at least 33 semester hours of accounting at the upper-division or graduate level. However, 150 semester hours are required to be certified as a public accountant.

There are two ways that UAB students can meet these requirements:

1. By obtaining an undergraduate accounting degree (or its equivalent) and completing certain additional coursework as specified under state law. Students interested in this option should contact an undergraduate advisor in The Department of Accounting and Finance for specific guidance. Students interested in this option and that hold degrees from other institutions should contact an undergraduate business advisor as well as apply to the university as a post baccalaureate degree-seeking student.

2. By obtaining a Master of Accounting degree. The Department of Accounting and Finance offers a master’s program that is fully accredited by AACSB International. Students interested in this option should refer to the UAB Graduate School Catalog for admission policies.

Other Professional Accounting Certifications
Other examinations leading to professional certification (CMA, CIA, CFA, etc.) generally do not require academic coursework beyond the baccalaureate degree. Students interested in other accounting certifications should contact an undergraduate business advisor or any member of the accounting faculty for further information.

Accounting Major
The objective of the major in accounting is to provide basic conceptual accounting and business knowledge as a foundation for beginning professional careers as accountants in the fields of public accounting, private or industrial accounting, and governmental accounting, or for pursuing study at the graduate level. In the senior year, students may specialize to a limited extent by taking one or more advanced courses in a particular field.

Students must earn a minimum grade of B in AC 200, and a minimum grade of C in all accounting courses numbered 201 or above. The grade of B in AC 200 is a prerequisite for AC 300 and the grade of C is a prerequisite for all accounting courses above 300. In addition, students must have a minimum grade of C and have an overall C average in all major courses. At least 15 hours of the major must be taken at UAB. The university’s course forgiveness policy may be applied in this major.

Finance Major
The finance curriculum is designed to provide an understanding of financial operating and investment problems in both financial and non-financial businesses. Careers are available in areas such as government, securities businesses, banking, insurance, real estate, savings and other financial intermediaries, and in the financial management of non-financial businesses.

Finance majors must earn a minimum grade of C in all finance courses and have an overall 2.0 GPA in all major courses. At least 15 hours of the major must be taken at UAB. The university course forgiveness policy may be applied to any finance concentration.

On This Page
- Upper Level Business Requirements For Accounting (p. 121)
- Major Requirements for Accounting (p. 121)
  - Concentration in Forensic Accounting and Information Technology Auditing (p. 121)
- Major in Finance (p. 121)
- Upper Level Business Requirements For Finance (p. 121)
- Financial Management (p. 121)
  - Major Requirements For Finance with a Concentration in Financial Management (p. 121)
- Investments and Institutions (p. 121)
  - Major Requirements For Finance, with a Concentration in Investments & Institutions (p. 121)
- Real Estate (p. 121)
  - Major Requirements For Finance with a Concentration in Real Estate (p. 121)
- Admissions Requirement (p. 121)
- School of Business Requirements (p. 121)
- Free Electives (p. 121)
## Upper Level Business Requirements For Accounting

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Upper Level Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Students must earn a grade of C or better in the stated prerequisites of each School of Business course and have an overall 2.0 GPA.</td>
<td></td>
</tr>
<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 403 Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>or DB 320 Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Capstone (AC)</strong></td>
<td></td>
</tr>
<tr>
<td>AC 495 Accounting Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>International Business Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>EC 407 International Economics</td>
<td>3</td>
</tr>
<tr>
<td>FN 412 International Financial Management</td>
<td></td>
</tr>
<tr>
<td>MG 415 International Business Dynamics</td>
<td></td>
</tr>
<tr>
<td>MK 416 International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AC 440 International Accounting: From a User’s Perspective</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 24

## Major Requirements for Accounting

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grade and GPA Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Must earn a minimum grade of C in each course, except for AC 200, in which a B is required to proceed to the major.</td>
<td></td>
</tr>
<tr>
<td><strong>Accounting Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>AC 300 Financial Accounting I 1</td>
<td>3</td>
</tr>
<tr>
<td>AC 304 Accounting Information Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>AC 310 Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>AC 401 Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>AC 402 Income Taxation I</td>
<td>3</td>
</tr>
<tr>
<td>AC 413 Internal Auditing</td>
<td>3</td>
</tr>
<tr>
<td>AC 430 Financial Accounting III</td>
<td>3</td>
</tr>
<tr>
<td><strong>Accounting Major Elective</strong></td>
<td></td>
</tr>
<tr>
<td>Select 3 hours from 400-level or higher Accounting (AC) courses.</td>
<td>3</td>
</tr>
<tr>
<td>Experiential Requirement 2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 27

1 All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464,AC 474,BUS 496,DB 495,EC 460,ENT 445,ENT 426,FN 460,IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific requirements for your major.

## Concentration in Forensic Accounting and Information Technology Auditing

The increased attention focusing on inappropriate and fraudulent behavior within the business community in recent years has led to the creation of a concentration in Forensic Accounting and Information Technology Auditing at UAB. This concentration introduces accounting and information systems students to the basics of fraud, IT audits, fraud examination and forensic accounting. Although of value to anyone in the financial information professions, it is designed to appeal to those students with an interest in becoming Certified Fraud Examiners (CFEs).

Accounting and information systems majors may choose, (as a part or in addition to the courses required for the major), the following series of courses which make up the concentration:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>AC/IS 472 Forensic Accounting and Information Tech Auditing</td>
<td>3</td>
</tr>
<tr>
<td>AC/IS 473 Fraud Examination</td>
<td>3</td>
</tr>
<tr>
<td>LS 471 Legal Elements of Fraud Investigation</td>
<td>3</td>
</tr>
<tr>
<td>AC or IS Elective Approved by Advisor</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 12

## Major in Finance

### Upper Level Business Requirements For Finance

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Upper-Level Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Students must earn a grade of C or better in the stated prerequisites and have an overall 2.0 GPA.</td>
<td></td>
</tr>
<tr>
<td>BUS 305 Professional Development for Today’s Workplace</td>
<td>1</td>
</tr>
<tr>
<td>BUS 350 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>IS 303 Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MK 303 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FN 310 Fundamentals of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 302 Management Processes and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>QM 350 Quantitative Methods for Finance (or other advisor approved course)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Capstone Course</strong></td>
<td></td>
</tr>
<tr>
<td>BUS 450 Strategic Management Capstone Experience</td>
<td>3</td>
</tr>
<tr>
<td><strong>International Business Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>FN 412 International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Experiential Requirement 1</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 28

1 All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor:AC 464,AC 474,BUS 496,DB 495,EC 460,ENT 445,ENT 426,FN 460,IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific options for your major.

## Financial Management

Students who expect to own and/or operate small businesses, or who wish to seek employment as financial analysts in large corporations, and government agencies should select this concentration. Topics studied include financial analysis and forecasting, capital budgeting, working
capital management, valuation theory, and other specialized areas in finance.

Major Requirements For Finance with a Concentration in Financial Management

Requirements | Hours
--- | ---
Grade and GPA Requirement | 3

Students must earn a grade of C or better in each course, have an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

Finance Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 320</td>
<td>Financial Accounting Survey</td>
</tr>
<tr>
<td>AC 401</td>
<td>Cost Accounting</td>
</tr>
<tr>
<td>FN 311</td>
<td>Short-Term Financial Management</td>
</tr>
<tr>
<td>FN 320</td>
<td>Financial Research Methods</td>
</tr>
<tr>
<td>FN 350</td>
<td>Equity Portfolio Management</td>
</tr>
<tr>
<td>FN 410</td>
<td>Advanced Financial Management</td>
</tr>
<tr>
<td>FN 411</td>
<td>Case Studies in Financial Management</td>
</tr>
<tr>
<td>FN 453</td>
<td>Financial Risk Management</td>
</tr>
</tbody>
</table>

Finance Major Elective

Select one 300-level or higher AC, EC, or FN course approved by finance advisor. ¹

Experiential Requirement ² | 3

Total Hours | 30

¹ Students may not apply any course to satisfy this requirement and a requirement in the Upper-Level Business Requirements. Each course used only once.

² All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, ENT 445, ENT 426, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific options for your major.

Real Estate

Students who wish to focus on commercial real estate finance and investment analysis should select this concentration. Topics included, but not limited to, are the commercial real estate industry and preparation for related entry positions with developers, lenders, appraisers, brokers, investment bankers, real estate advisors, real estate trusts and consulting firms, both nonprofit organizations and government agencies.

Major Requirements For Finance with a Concentration in Real Estate

Requirements | Hours
--- | ---
Grade and GPA Requirement | 3

Students must earn a grade of C or better in each course, have an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

Finance Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 320</td>
<td>Financial Accounting Survey</td>
</tr>
<tr>
<td>FN 470</td>
<td>Real Estate Finance</td>
</tr>
<tr>
<td>FN 320</td>
<td>Financial Research Methods</td>
</tr>
<tr>
<td>FN 475</td>
<td>Real Estate Investment Analysis and Valuation</td>
</tr>
<tr>
<td>FN 370</td>
<td>Principles of Real Estate</td>
</tr>
<tr>
<td>FN 350</td>
<td>Equity Portfolio Management</td>
</tr>
<tr>
<td>or FN 452</td>
<td>Management of Financial Intermediaries</td>
</tr>
<tr>
<td>FN 410</td>
<td>Advanced Financial Management</td>
</tr>
</tbody>
</table>

Finance Major Electives

Select two 300-level or higher EC, FN, MK, or QM course approved by finance advisor.

Experiential Requirement ¹ | 3

Total Hours | 30

¹ All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, ENT 445, ENT 426, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific options for your major.

Investments and Institutions

Students who wish to prepare for careers in financial institutions (such as banks, thrifts, insurance companies, and credit unions), or the securities industry (such as a stockbroker, portfolio manager, financial planner, or securities analyst), should select this concentration. Topics include commercial bank management, credit analysis, trust services, securities markets, and portfolio management, economic forecasting, and real estate.

Major Requirements For Finance with a Concentration in Investments & Institutions

Requirements | Hours
--- | ---
Grade and GPA Requirement | 3

Students must earn a C or better in each course, have an overall 2.0 GPA, and an overall 2.0 GPA in all major courses.

Finance Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 320</td>
<td>Financial Accounting Survey</td>
</tr>
<tr>
<td>EC 420</td>
<td>Applied Forecasting</td>
</tr>
<tr>
<td>FN 320</td>
<td>Financial Research Methods</td>
</tr>
<tr>
<td>FN 350</td>
<td>Equity Portfolio Management</td>
</tr>
<tr>
<td>FN 351</td>
<td>Bond Portfolio Management</td>
</tr>
<tr>
<td>FN 410</td>
<td>Advanced Financial Management</td>
</tr>
</tbody>
</table>

Finance Major Electives

Select one 300-level or higher AC, EC, or FN course approved by finance advisor.

Experiential Requirement ¹ | 3

Total Hours | 30

¹ All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, ENT 445, ENT 426, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific options for your major.
Admissions Requirement

Students must be admitted to the School of Business. Please review the School of Business Admissions Requirements.

School of Business Requirements

Students must adhere to all School of Business Academic Requirements and Finance major GPA requirements. Use of the university’s course forgiveness policy is allowed.

Free Electives

If the courses taken to satisfy all of the requirements will not meet the minimum credit hour requirement to graduate, free electives may be taken to reach the required number of hours.

Proposed Program of Study for a Major in Accounting

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 105</td>
<td>3</td>
<td>CMST 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
<td>BUS 110</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV:</td>
<td>3</td>
<td>Core Curriculum Area II:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social &amp; Behavioral Science</td>
<td></td>
<td>Humanities and Fine Arts</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area III:</td>
<td>4</td>
<td>Core Curriculum Area IV:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Science with Lab</td>
<td></td>
<td>History</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM 214</td>
<td>3</td>
<td>LS 246</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 200 (must earn a grade of B or better)</td>
<td></td>
<td>QM 215</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>AC 201</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II:</td>
<td>3</td>
<td>EC 211</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 350</td>
<td>3</td>
<td>MK 303</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MG 302</td>
<td>3</td>
<td>AC 310</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 304</td>
<td>3</td>
<td>AC 402</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 300</td>
<td>3</td>
<td>AC 401</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 305</td>
<td>1</td>
<td>MG 403</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 310</td>
<td>3</td>
<td>AC 495</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 413</td>
<td>3</td>
<td>International Business</td>
<td>3</td>
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</tr>
<tr>
<td>IS 303</td>
<td>3</td>
<td>Accounting Elective (400 level)</td>
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<td></td>
</tr>
<tr>
<td>AC 430</td>
<td>3</td>
<td>General Elective</td>
<td>6</td>
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</tr>
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</table>

Experiential Requirement | 3 | 15 | 15 |

Total credit hours: 120

1 Select one of the following courses: ARH 101, MU 120 or THR 100.
2 Select one of the following courses: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
3 Select one of the following: AC 440, FN 412, EC 407, MK 416 or MG 415.

Proposed Program of Study for a Major in Finance with a Concentration in Financial Management

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EH 101</td>
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<td>CMST 101</td>
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<td>MA 105</td>
<td>3</td>
<td>BUS 110</td>
<td>3</td>
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<td>Core Curriculum Area II:</td>
<td>3</td>
<td>Core Curriculum Area II:</td>
<td>3</td>
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</tr>
<tr>
<td>Humanities and Fine Arts</td>
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<td>Natural Science (with laboratory)</td>
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<td>Core Curriculum Area IV: Social &amp; Behavioral Science</td>
<td>3</td>
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<td>History</td>
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<table>
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<th>Second Term</th>
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<td>LS 246</td>
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<tr>
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<td>EC 211</td>
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<tr>
<td>Literature</td>
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<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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<table>
<thead>
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<th>Second Term</th>
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<tr>
<td>AC 320</td>
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<td>FN 310</td>
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<td>FN 412</td>
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<td></td>
</tr>
<tr>
<td>BUS 305</td>
<td>1</td>
<td>MK 303</td>
<td>3</td>
<td></td>
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<td>BUS 350</td>
<td>3</td>
<td>Finance Elective</td>
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<th>Hours</th>
<th>Second Term</th>
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<tbody>
<tr>
<td>FN 350</td>
<td>3</td>
<td>FN 453</td>
<td>3</td>
<td></td>
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<td>FN 320</td>
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<tr>
<td>FN 411</td>
<td>3</td>
<td>BUS 450</td>
<td>3</td>
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<td>AC 401</td>
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<td>Experiential requirement</td>
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<tr>
<td>MG 302</td>
<td>3</td>
<td>General Electives</td>
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Total credit hours: 120
Proposed Program of Study for a Major in Finance with a Concentration in Investments and Institutions

**Freshman**

<table>
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<tr>
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<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Term</td>
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</tr>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
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</tr>
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<td>MA 105</td>
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<tr>
<td>BUS 101</td>
<td>3</td>
<td>BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3</td>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3</td>
<td>Core Curriculum Area I: Social and Behavioral Science</td>
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<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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Total credit hours: 15

**Sophomore**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
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<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QM 214</td>
<td>3</td>
<td>LS 246</td>
<td>3</td>
</tr>
<tr>
<td>AC 200</td>
<td>3</td>
<td>QM 215</td>
<td>3</td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>AC 201</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>Core Curriculum Area II: History</td>
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<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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Total credit hours: 16

**Junior**

<table>
<thead>
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<th>Hours</th>
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<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 305</td>
<td>1</td>
<td>IS 303</td>
<td>3</td>
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<td>AC 320</td>
<td>3</td>
<td>FN 410</td>
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</tr>
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<td>QM 350</td>
<td>3</td>
<td>FN 412</td>
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<td>FN 310</td>
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<td>MK 303</td>
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<tr>
<td>BUS 350</td>
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Total credit hours: 13

**Senior**

<table>
<thead>
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<th>Term</th>
<th>Hours First Term</th>
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<th>Hours</th>
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<tr>
<td>First Term</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>FN 350</td>
<td>3</td>
<td>FN 351</td>
<td>3</td>
</tr>
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<td>FN 320</td>
<td>3</td>
<td>FN 453</td>
<td>3</td>
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<td>FN 452</td>
<td>3</td>
<td>Bus 450</td>
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<td>EC 420</td>
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<td>General Electives</td>
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<td>MG 302</td>
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<td>Experiential Requirement</td>
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Total credit hours: 15

Total credit hours: 120

Select one of the following courses: ARH 101, MU 120, THR 100

Select one of the following courses: HY 101, HY 102, HY 104, HY 105, HY 120, HY 121

Proposed Program of Study for a Major in Finance with a Real Estate Concentration

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
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<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
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<td>EH 102</td>
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<td>MA 105</td>
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<td>CMST 101</td>
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<tr>
<td>BUS 101</td>
<td>3</td>
<td>BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3</td>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
</tr>
<tr>
<td>Humanities, Fine Arts</td>
<td>4</td>
<td>Social and Behavioral Science</td>
<td>3</td>
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<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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</table>

Total credit hours: 15

**Sophomore**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Term</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>QM 214</td>
<td>3</td>
<td>LS 246</td>
<td>3</td>
</tr>
<tr>
<td>AC 200</td>
<td>3</td>
<td>QM 215</td>
<td>3</td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>AC 201</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>Core Curriculum Area II: History</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
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</table>

Total credit hours: 16

**Junior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Term</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>QM 350 or EC 301</td>
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<td>BUS 350</td>
<td>3</td>
</tr>
<tr>
<td>AC 320</td>
<td>3</td>
<td>IS 303</td>
<td>3</td>
</tr>
<tr>
<td>FN 310</td>
<td>3</td>
<td>FN 410</td>
<td>3</td>
</tr>
<tr>
<td>BUS 305</td>
<td>1</td>
<td>FN 412</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td>MK 303</td>
<td>3</td>
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</tbody>
</table>

Total credit hours: 13

**Senior**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FN 370</td>
<td>3</td>
<td>FN 475</td>
<td>3</td>
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<td>FN 320</td>
<td>3</td>
<td>FN 470</td>
<td>3</td>
</tr>
<tr>
<td>FN 350 or 452</td>
<td>3</td>
<td>BUS 450</td>
<td>3</td>
</tr>
<tr>
<td>MG 302</td>
<td>3</td>
<td>Major Elective (300 or 400 level)</td>
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<tr>
<td>Major Elective (300 or 400 level)</td>
<td>3</td>
<td>Experiential Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credit hours: 15

Total credit hours: 120

1 Select one of the following courses: ARH 101, MU 120, THR 100
2 Select one of the following courses: HY 101, HY 102, HY 104, HY 105, HY 120, HY 121

Department of Management, Information Systems and Quantitative Methods

Chair: Molly McLure Wasko

The Department of Management, Information Systems and Quantitative Methods (http://www.uab.edu/business/departments-centers/academic-departments/management-informationsystems-quantitativemethods) supports the mission of the Collat School of Business through the department’s majors and course offerings. The department will offer an educational foundation that will prepare students for professional careers and enable them to pursue graduate studies.

The department is responsible for activities in management, information systems, and quantitative methods.
Upper Level Business Requirements for Management and Information Systems

Requirements | Hours
--- | ---
**Upper-Level Requirements**
BUS 305  Professional Development for Today's Workplace | 1
BUS 350  Business Communications | 3
FN 310  Fundamentals of Financial Management | 3
IS 303  Information Systems | 3
MG 302  Management Processes and Behavior | 3
MG 403  Operations Management | 3
MK 303  Basic Marketing | 3

**Capstone Requirement**
BUS 450  Strategic Management Capstone Experience (Management Majors) | 3

**International Business Requirement**
Select one of the following courses:
AC 440  International Accounting: From a User's Perspective | 3
EC 407  International Economics | 3
FN 412  International Financial Management | 3
MG 415  International Business Dynamics | 3
MK 416  International Marketing | 3

**Experiential Requirement**

**Total Hours** | 25

---

1 Must earn a grade of C or better in all stated prerequisites for all business courses and have an overall 2.0 GPA.
2 Must be taken as a senior in last term.
3 All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, ENT 445, ENT 426, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific requirements for your major.

Major Requirements for Management (p. 126)

Major Requirements for Information Systems (p. 127)

Management Major

The management major is designed to provide students with the ability to be effective decision makers in an organizational setting. The objective of the major is to enable students to acquire the knowledge and skills necessary for gaining entry into a management career and for sustaining successful performance throughout that career. Internships and elective courses in entrepreneurship are also available.

Students must earn at least a grade of C in all stated prerequisite courses for all of the management concentrations. An overall 2.0 GPA in all courses used in the major is also required. At least 15 hours of the major courses must be taken at UAB. The university’s course forgiveness policy may be applied to all management major concentrations.

Management majors have the option of choosing one of the following concentrations: Business Administration, Human Resource Management, or Operations Management as a major. A student not choosing a concentration will have a Management degree with no concentration.

Business Administration Concentration

The business administration concentration is designed for students who seek more flexibility within the management major by allowing them to select courses from other disciplines to round out the major. Besides providing greater flexibility, the student can select advanced studies in other areas of business such as finance, information systems, economics, and marketing.

Major Requirements for Management with Business Administration Concentration

Requirements | Hours
--- | ---
**Grade and GPA Requirement**
Students must earn a grade of C or better in all stated prerequisites for all major courses, have an overall 2.0 GPA and have an overall 2.0 GPA in all major courses.

**Management courses**
MG 401  Organizational Behavior | 3
MG 409  Human Resource Management | 3
MG 417  Project Management | 3
Upper level FN | 3
Upper level EC | 3
Upper level MK | 3
Upper level advisor approved Business Electives | 6

**Total Hours** | 24

Management Major

The management major is designed for students who seek to develop a broad exposure to the management discipline rather than pursue any emphasis. This major includes courses in human resources, organizational behavior, leadership and employment law.

Major Requirements for Management

Requirements | Hours
--- | ---
**Grade and GPA Requirement**
Students must earn a grade of C or better in all stated prerequisites for all major courses, have an overall 2.0 GPA and have an overall 2.0 GPA in all major courses.

**Required Courses**
MG 401  Organizational Behavior | 3
MG 409  Human Resource Management | 3
MG 413  Employment Law | 3
MG 425  Managing Through Leadership | 3

**Management Electives**
Choose 4 (12 hours) MG 300/400 courses or other upper level courses with approval of major advisor | 12

**Total Hours** | 24

1 Students may NOT apply MG 415 to this requirement and the IB requirement. COURSE USED ONLY ONCE.
Human Resource Management Concentration

The human resource management concentration is designed for students who wish to pursue a career in human resources, to develop knowledge of employee relations for continuing career development, or to gain skills in the increasingly important area of the overall management task.

Major Requirements for Management with Human Resource Management Concentration

Must earn a grade of C or better in all stated prerequisites for all major course, have an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 401 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 409 Human Resource Management</td>
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<td>MG 411 Compensation Administration</td>
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<tr>
<td>MG 412 Employee Selection and Development</td>
<td>3</td>
</tr>
<tr>
<td>MG 413 Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>MG 425 Managing Through Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

Required HR Elective
Select any two 300 level or above Management (MG) courses not previously taken or required. 6

Total Hours 24

1 Must have a C or better in order to take MG 411 and MG 412

Operations Management Concentration

Major Requirements for Management with a Concentration in Operations Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MG 401 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MG 409 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 413 Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>MG 425 Managing Through Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MG 416 Supply Chain Management</td>
<td>3</td>
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<tr>
<td>MG 417 Project Management</td>
<td>3</td>
</tr>
<tr>
<td>MG 418 Quality Management</td>
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<tr>
<td>Any 300/400 advisor approved course</td>
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Total Hours 24

Major Requirements for Information Systems

Information Systems Requirements

<table>
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<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>IS 204 Introduction to Business Programming</td>
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</tr>
<tr>
<td>IS 301 Introduction to Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 321 Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MG 417 Project Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 302 Enterprise Systems</td>
<td>3</td>
</tr>
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</table>

Information Systems Electives
Select 9 hours from Information Systems courses.

Total Hours 24

Admissions Requirement

Students must be admitted to the Collat School of Business. Please review the School’s Admissions Requirements.

Collat School of Business Requirements

Students must adhere to all Collat School of Business Academic Requirements and Information Systems major requirements. The university’s course forgiveness policy is allowed.

Free Electives

If the courses taken to satisfy all of the requirements will not meet the minimum credit hour requirement to graduate, free electives may be taken to reach the required number of hours.

Proposed Program of Study for a Major in Management with a Business Administration Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
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<td></td>
</tr>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
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<td>MA 105</td>
<td>3 CMST 101</td>
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<td>BUS 101</td>
<td>3 BUS 110</td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities, Fine Arts1</td>
<td>3 Core Curriculum Area III: Natural Science (with laboratory)</td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3 Core Curriculum Area IV: History2</td>
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</table>

Total Hours 15 16

1 Must have a C or better in all stated prerequisites for all major courses, have an overall 2.0 GPA and have an overall 2.0 GPA in all major courses.

Information Systems Major

The information systems major is designed to provide students with the foundational knowledge and managerial skills to pursue a career in information systems, systems analysis and design, IT project management, and/or the implementation of a complex information system.

Students must have a minimum grade of C in all information systems courses, numbered 200 and above, that are applied to the major. The grade of C is a prerequisite for all information systems courses numbered 300 or above. In addition, students must have a grade of C or better and an overall C average in all major courses. At least 15 hours of the major must be taken at UAB. The university’s course forgiveness policy may be applied to this major.
### Core Curriculum Area

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>III: Natural Science (with laboratory)</td>
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### Junior

<table>
<thead>
<tr>
<th>Term</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 350</td>
<td>3</td>
<td>MG 409</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MK 303</td>
<td>3</td>
<td>MG 417</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MG 302</td>
<td>3</td>
<td>International Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EC 304 or 320</td>
<td>3</td>
<td>FN 310</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 305</td>
<td>1</td>
<td>MG 403</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total credit hours: | 16 | 15 |

1. Select one from the following courses: ARH 101, MU 120 or THR 100.
2. Select one course from the following: HY 101, HY 102, HY 104, HY 105, HY 120, or HY 121.
3. Choose from AC 440, EC 407, MG 415, MK 416, FN 412, or IB 495.
4. Junior standing required (60 semester hours credit).
5. Select one from: Any 300/400 MK course.
6. Select one from: Any 300/400 FN course.

### Proposed Program of Study for a Major in Management with a Concentration in Human Resource

<table>
<thead>
<tr>
<th>Term</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 105</td>
<td>3</td>
<td>CMST 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
<td>BUS 110</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Social &amp; Behavioral Science</td>
<td>3</td>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities, Fine Art</td>
<td>3</td>
<td>Core Curriculum Area: III: Natural Science (with laboratory)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

| Total credit hours: | 15 | 16 |

### Sophomore

<table>
<thead>
<tr>
<th>Term</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM 214</td>
<td>3</td>
<td>LS 246</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 200</td>
<td>3</td>
<td>QM 215</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EC 210</td>
<td>3</td>
<td>AC 201</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>3</td>
<td>Core Curriculum Area II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total credit hours: | 13 | 15 |
### Proposed Program of Study for a Major in Information Systems

#### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 305</td>
<td>1 MG 413&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>BUS 350</td>
<td>3 MG 409</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>3 MG 425</td>
<td>3</td>
</tr>
<tr>
<td>MG 302&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 International Business</td>
<td>3</td>
</tr>
<tr>
<td>FN 310</td>
<td>3 Core Curriculum Area II: Literature</td>
<td>3</td>
</tr>
<tr>
<td>IS 303</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 302&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 Information Systems Elective</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>3 Core Curriculum Area II</td>
<td>3</td>
</tr>
<tr>
<td>IS 302</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Total credit hours: 120

1. Select one from: ARH 101, MU 120 or THR 100.
2. Select one from: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
4. Junior Standing (60 semester hours of credit)

### Proposed Program of Study for a Major in Management with a Concentration in Operations Management

#### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 105</td>
<td>3 CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3 BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Humanities, Fine Art&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3 Core Curriculum Area</td>
<td>4</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3 Core Curriculum Area IV: History&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM 214</td>
<td>3 LS 246</td>
<td>3</td>
</tr>
<tr>
<td>AC 200</td>
<td>3 OM 215</td>
<td>3</td>
</tr>
<tr>
<td>EC 210</td>
<td>3 AC 201</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3 Core Curriculum Area II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 305</td>
<td>1 MG 403</td>
<td>3</td>
</tr>
<tr>
<td>BUS 350</td>
<td>3 MG 401</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>3 MG 409</td>
<td>3</td>
</tr>
<tr>
<td>MG 302</td>
<td>3 IS 303</td>
<td>3</td>
</tr>
<tr>
<td>FN 310</td>
<td>3 International Business requirement&lt;sup&gt;6&lt;/sup&gt;</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Total credit hours: 120

1. Select one from: ARH 101, MU 120 or THR 100.
2. Select one from: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 413</td>
<td>3</td>
<td>BUS 450</td>
<td>3</td>
</tr>
<tr>
<td>MG 425</td>
<td></td>
<td>3 Major Electives&lt;sup&gt;3&lt;/sup&gt;</td>
<td>6</td>
</tr>
<tr>
<td>MG 445</td>
<td>3</td>
<td>General Electives</td>
<td>6</td>
</tr>
<tr>
<td>Major Electives&lt;sup&gt;3&lt;/sup&gt;</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

Total credit hours: 120

1. Select one from: ARH 101, MU 120 or THR 100
2. Select one from: HY 101, HY 102, HY 120 or HY 121
3. Select four from MG 416, MG 417, MG 418, MG 445, and any 300/400 advisor approved course.
4. Choose from MG 415, MK 416, EC 407, FN 412, AC 440 or IB 495

Department of Marketing, Industrial Distribution, and Economics

Chair: Dr. Mike Wittmann

The Department of Marketing, Industrial Distribution, and Economics supports the mission of the School of Business through the department’s majors and course offerings. Majors within the department are designed around discipline-based theory and real-world applications.

The department is responsible for activities in marketing, industrial distribution, economics, and legal studies.

Upper Level Business Requirements

For Marketing, Industrial Distribution, Economics and The Medical Equipment and Supplies Distribution Concentration

Requirements

Grade and GPA Requirement

Students must earn a grade of C or better in all stated prerequisites for all business courses and have an overall 2.0 GPA.

Upper-Level Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 305</td>
<td>1</td>
</tr>
<tr>
<td>BUS 350</td>
<td>3</td>
</tr>
<tr>
<td>FN 310</td>
<td>3</td>
</tr>
<tr>
<td>MK 303</td>
<td>3</td>
</tr>
<tr>
<td>DB 320</td>
<td>3</td>
</tr>
<tr>
<td>IS 303</td>
<td>3</td>
</tr>
<tr>
<td>MG 302</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK 450</td>
<td>3</td>
</tr>
<tr>
<td>BUS 450</td>
<td>3</td>
</tr>
</tbody>
</table>

or MK 450

Strategic Marketing (Marketing Majors)<sup>2</sup>

Strategic Management Capstone Experience (Industrial Distribution Majors)<sup>2</sup>

International Business Requirement

Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 407</td>
<td>3</td>
</tr>
</tbody>
</table>

International Economics (Economics majors must take this course.)

FN 412
International Financial Management

MG 415
International Business Dynamics

MK 416
International Marketing

AC 440
International Accounting: From a User’s Perspective

Experiential requirement<sup>3</sup>

<table>
<thead>
<tr>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
</tr>
</tbody>
</table>

1. Students majoring in Economics, Marketing and Industrial Distribution are required to complete DB 320
2. To attempt MK 450, must have completed with a grade of C or better in BUS 350, FN 310, MK 312, MK 320, MK 408 and MK 410 or obtain permission of the Department Chair of MIDE and instructor.
3. All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of these courses or other course/project approved by your major academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, ENT 426, ENT 445, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445. See your academic advisor for specific options for your major.

On This Page

- Marketing Major (p. 130)
  - Concentration in Marketing Management (p. 130)
  - Concentration in Professional Sales Management (p. 130)
- Industrial Distribution Major (p. 130)
  - Major Requirements for Industrial Distribution (p. 130)
  - ID and Sales Certificate (p. 130)
  - Industrial Distribution and Marketing (p. 130)
  - Medical Equipment and Supplies Distribution Concentration (p. 130)
- Economics Major (p. 130)
  - Economic Analysis & Policy Concentration (p. 130)
  - Mathematical Economics Concentration (p. 130)
  - Philosophy, Politics and Economics Concentration (p. 130)
- Admissions Requirement (p. 130)
- School of Business Requirements (p. 130)
- Free Electives (p. 130)

Marketing Major

The objective of the major in marketing is to prepare students for a wide range of marketing jobs in both business and not-for-profit organizations and to place our graduates in rewarding and productive careers. Graduates find career opportunities in commercial and industrial distribution, marketing management, marketing research, supply chain management, professional sales, purchasing, promotion, and advertising.

The major is an excellent foundation for graduate work in marketing, Law School or a M.B.A. degree. Students must concentrate in an area of marketing through elective courses offered by the MIDE and MISQ departments. Concentrations include Marketing Management, Professional Sales Management, Retail Marketing Management, and Social Media Marketing.

Students must earn at least a grade of C in all stated prerequisite courses for the marketing requirements. A 2.0 GPA for all courses applied to the
major is also required. At least 15 hours of the major courses must be taken at UAB. The UAB forgiveness policy may be applied to this major.

**Concentration in Marketing Management**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Major Courses</td>
<td></td>
</tr>
<tr>
<td>DB 320 Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Management Concentration</td>
<td></td>
</tr>
<tr>
<td>MK 312 Retail Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ENT 421 Entrepreneurial Market Analysis and Planning</td>
<td>3</td>
</tr>
<tr>
<td>Two Marketing Electives at the 400 level or above</td>
<td>6</td>
</tr>
<tr>
<td>Experiential Requirement</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>24</td>
</tr>
</tbody>
</table>

1. All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, ENT 426, ENT 445, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445. Please see your advisor for specific requirements for your major.

**Concentration in Professional Sales Management**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Major Courses</td>
<td></td>
</tr>
<tr>
<td>DB 320 Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td>Professional Sales Concentration</td>
<td></td>
</tr>
<tr>
<td>MK 420 Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 425 Advanced Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>Two Marketing Electives at the 300 level or above</td>
<td>6</td>
</tr>
<tr>
<td>Experiential Requirement</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>27</td>
</tr>
</tbody>
</table>

1. All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445.

**Social Media Marketing Concentration**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Major Courses</td>
<td></td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td>Social Media Marketing Concentration</td>
<td></td>
</tr>
<tr>
<td>MK 401 Social Media in Marketing</td>
<td>3</td>
</tr>
<tr>
<td>One Marketing Elective Course</td>
<td>3</td>
</tr>
<tr>
<td>Select two from the following:</td>
<td>6</td>
</tr>
<tr>
<td>IS 415 Social Media &amp; Virtual Communities</td>
<td></td>
</tr>
<tr>
<td>IS 416 Web Analytics</td>
<td></td>
</tr>
<tr>
<td>IS 417 Introduction to Business Intelligence</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>24</td>
</tr>
</tbody>
</table>

**Industrial Distribution Major**

The Charles & Patsy Collat Industrial Distribution Program is one of a small number of such programs in the world that prepares graduates for technical sales, operations, logistics, marketing and purchasing positions specifically for industrial, technical and medical firms. This challenging and engaging program provides two highly focused tracks from which students choose between as an area of concentration: Industrial Distribution or Medical Equipment and Supplies Distribution. These concentrations allow students the opportunity to gain specialized knowledge unique to each of these industries.

**Industrial Distribution Concentration:**

The Industrial Distribution concentration provides students with a comprehensive understanding of issues and solutions facing suppliers, distributors, and customers as they move technical products and provide services through supply chain networks. Preparing students for careers with manufacturers or distributors in a technical industry, graduates are prepared to work in positions such as sales, operations, or purchasing for companies that manufacture technical equipment, or for companies that distribute these products. While enrolled in the ID Program, students receive instruction and mentoring from faculty in the Collat School of Business as well as from faculty in the School of Engineering. An internship is a required component of the ID Program which enables students to receive direct training and exposure to the field in which they are preparing to work.

**Major Requirements for Industrial Distribution**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Major Courses</td>
<td></td>
</tr>
<tr>
<td>DB 320 Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td>Concentration in Retail Marketing Management</td>
<td></td>
</tr>
<tr>
<td>MK 312 Retail Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MK 420 Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MK 430 Industrial Distribution Operations</td>
<td>3</td>
</tr>
<tr>
<td>Required Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>ME 103 Drawing, Design and Measurement for Industrial Distribution</td>
<td>3</td>
</tr>
<tr>
<td>ME 302 Overview of Mechanical Components</td>
<td>3</td>
</tr>
<tr>
<td>EE 305 Fundamentals of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MSE 350 Introduction to Materials</td>
<td>3</td>
</tr>
<tr>
<td>Required Business Courses</td>
<td></td>
</tr>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
</tbody>
</table>

**One Marketing Elective Course at the 400 level**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK 330 Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MK 408 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MK 410 Integrated Marketing Communication</td>
<td>3</td>
</tr>
<tr>
<td>Social Media Marketing Concentration</td>
<td></td>
</tr>
<tr>
<td>MK 401 Social Media in Marketing</td>
<td>3</td>
</tr>
<tr>
<td>One Marketing Elective Course</td>
<td>3</td>
</tr>
<tr>
<td>Select two from the following:</td>
<td>6</td>
</tr>
<tr>
<td>IS 415 Social Media &amp; Virtual Communities</td>
<td></td>
</tr>
<tr>
<td>IS 416 Web Analytics</td>
<td></td>
</tr>
<tr>
<td>IS 417 Introduction to Business Intelligence</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>24</td>
</tr>
</tbody>
</table>
DB 320  Distribution Management  3
DB 430  Distribution Operations  3
DB 435  Distribution Policies and Quality Issues  3
DB 495  Distribution Directed Studies Practicum  3
Total Hours  27

Industrial Distribution Electives
The Industrial Distribution Program permits students to choose the following areas of emphasis through the selection of approved electives:

ID and Sales Certificate:

Requirements Hours
MK 420  Sales Management  3
MK 425  Advanced Professional Selling  3
Completion of this sequence constitutes completion of the Professional Sales Certificate Program.

Industrial Distribution and Marketing:

Requirements Hours
MK 312  Retail Marketing  3
MK 408  Marketing Research  3
MK 410  Integrated Marketing Communication  3
ENT 421  Entrepreneurial Market Analysis and Planning  3
MK 450  Strategic Marketing  3
Completion of this sequence constitutes a double major in Industrial Distribution and Marketing.

Medical Equipment and Supplies Distribution Concentration
The Medical Equipment and Supplies Program integrates the Business curriculum with distribution and health care classes to prepare graduates for careers in the medical equipment and supplies industry. Many students come to UAB to pursue careers in health care. A Medical Equipment and Supplies Distribution concentration is designed to provide students with the skills necessary to succeed in the health care industry as a direct service provider in the supply chain, purchasing, distribution operations and sales sectors of health care products and services.

Major Requirements For Industrial Distribution with a Concentration in Medical Equipment and Supplies Distribution

Requirements Hours
Required Business Courses
DB 320  Distribution Management (completed as upper level core class)  3
DB 430  Distribution Operations  3
DB 435  Distribution Policies and Quality Issues  3
DB 495  Distribution Directed Studies Practicum  3
MK 330  Professional Selling  3
Medical Equipment Supplies Distribution Electives
Select Four From The Following:  12-13
BY 115  Human Anatomy
& 115L and Human Anatomy Laboratory (Cannot be used in Core Area III)
HCM 350  Medical Terminology for Health Professionals
EC 306  Health Care Economics
ENT 424  New Product Development
Total Hours  27

1  Must maintain an overall 2.0 GPA, and have an overall 2.0 GPA in all major courses.

Economics Major
The major in economics is designed to provide students with a solid grounding in economic analysis and decision making. These skills allow students to follow many career paths in business and government. Also, this major provides excellent training for students planning to pursue graduate work in economics, law, or business.

Students must earn at least a grade of C in all stated prerequisite courses used in the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to both economics major concentrations.

Economics majors should select a concentration in Economic Analysis and Policy, or Philosophy, Politics and Economics as a major.

Economic Analysis & Policy Concentration
This concentration is suited for students who desire an understanding of the functions of the economy at the micro and macro levels. The analytical skills acquired provide excellent preparation for a variety of careers in industry and government, as well as graduate studies in law or public policy.

Students must earn a minimum grade of C in all stated prerequisite courses for any economics major concentration. A 2.0 GPA in all courses applied to the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to either economics major concentration.

Major Requirements For Economics with a Concentration in Economic Analysis & Policy

Requirements Hours
Economics Requirements
EC 304  Microeconomics  3
EC 305  Macroeconomics  3
Economics Major Electives
Select six 300-level or higher Economics (EC) courses or FN 412  18
Experiential requirement  3
Total Hours  27

1  Must earn a grade of C or better in stated prerequisites, have overall 2.0 GPA, and have overall 2.0 GPA in all major courses.

2  Note: Each course used only once.
All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445

Mathematical Economics Concentration

Students who choose the mathematical economics concentration will earn both a major in economics and a minor in mathematics by taking the required course work. This track is well suited for those students who wish to pursue graduate studies in economics, finance, or any other quantitative discipline. It also provides the student with excellent preparation for quantitative and analytical careers, such as those in the actuarial science or those in economic consulting.

Students must earn a minimum grade of C in all stated prerequisite courses for any economics major concentration. A 2.0 GPA in all courses applied to the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to either economics major concentration.

Major Requirements for Economics with a Mathematical Economics Concentration (and Math Minor)

### Requirements

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<td>MA 485</td>
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<td>MA 486</td>
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1. Replaces MA 105
2. Replaces BUS 110
3. Replaces QM 214
4. Replaces QM 215

### Additional Requirements

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<td>EC 305</td>
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Select three 300 level or higher Economics (EC) courses:

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<td>EC 407</td>
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<tr>
<td>EC 408</td>
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### Philosophy, Politics and Economics Concentration

The Philosophy, Politics and Economics Concentration focuses on topics in the intersection of philosophy, political science and economics. This concentration trains students to attack a wide range of problems using rigorous analytical techniques. It is an excellent basis for graduate study in philosophy, public policy, or political science, as well as for those planning to attend law school or for those anticipating careers in journalism, politics, management, intelligence, marketing, industrial organization and many other fields.

Students must earn at least a grade of C in all stated prerequisite courses for an economics major concentration. A 2.0 GPA in all courses used in the major is also required. At least 15 hours of these courses must be taken at UAB. The university’s course forgiveness policy may be applied to either economics major concentration.

### Major Requirements For Economics with a Concentration in Philosophy, Politics and Economics

<table>
<thead>
<tr>
<th>Course</th>
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<td>PHL 230</td>
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<td>PHL 470</td>
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Select one of the following:

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One 300 or higher PHL course

### Economics Requirements

<table>
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### Philosophy and Political Economy Requirements

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<td>EC 330</td>
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<tr>
<td>EC 450</td>
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### Economics Major Electives
Select three 300-level or higher Economics (EC) courses or FN 412.  
Experiential Requirement  
Total Hours 39

1 Must earn a grade of C or better in stated prerequisites, have overall 2.0 GPA, and have overall 2.0 GPA in all major courses.
2 Note: Students may NOT apply any course to this requirement and the Upper-Level Economics Requirement and/or IB requirement. Each course only once.
3 All business majors are required to participate in experiential education. This requirement may be met by satisfactory completion of one of the following courses or other course/project approved by your academic advisor: AC 464, AC 474, BUS 496, DB 495, EC 460, FN 460, IB 495, IS 464, MG 445, MK 425, MK 445

Admissions Requirement
Students must be admitted to the School of Business. Please review the School of Business Admissions Requirements.

School of Business Requirements
Students must adhere to all School of Business Academic Requirements and major requirements. The university’s course forgiveness policy is allowed.

Free Electives
If the courses taken to satisfy all of the requirements will not meet the minimum credit hour requirement to graduate, free electives may be taken to reach the required number of hours.

Proposed Program of Study for a Major in Marketing - Professional Sales Concentration

Freshman
First Term | Hours | Second Term | Hours |
--- | --- | --- | --- |
EH 101 | 3 | EH 102 | 3 |
BUS 101 | 3 | CMST 101 | 3 |
MA 105 | 3 | IS 103 | 3 |
Core Curriculum Area II: Fine Arts | 3 | BUS 110 | 3 |
Core Curriculum Area IV: Social and Behavioral Science | 3 | Core Curriculum Area III: Natural Science (with laboratory) | 4 |

Sophomore
First Term | Hours | Second Term | Hours |
--- | --- | --- | --- |
AC 200 | 3 | LS 246 | 3 |
EC 210 | 3 | BUS 350 | 3 |
Core Curriculum Area III: Natural Science (with laboratory) | 4 | AC 201 | 3 |
Core Curriculum Area IV: History | 3 | EC 211 | 3 |
Core Curriculum Area II: Literature | 3 | BUS 350 | 3 |

Junior
First Term | Hours | Second Term | Hours |
--- | --- | --- | --- |
QM 214 | 3 | MK Elective | 3 |
MK 303 | 3 | MK 330 | 3 |
MG 302 | 3 | MK 410 | 3 |
MG 403 or DB 320 | 3 | QM 215 | 3 |

Experiential Requirement 3
Total credit hours: 120
### Proposed Program of Study for a Major in Marketing - Retail Marketing Management Concentration

#### Freshman
**First Term**
- **Hours Second Term**
  - EH 101: 3 Core Curriculum Area III: Natural Science (with laboratory)
  - BUS 101: 3 EH 102
  - MA 105: 3 CMST 101
  - Core Curriculum Area II: Fine Arts
  - Core Curriculum Area IV: Social and Behavioral Science

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#### Sophomore
**First Term**
- **Hours Second Term**
  - Core Curriculum Area III: Natural Science (with laboratory)
  - Core Curriculum Area II: Literature
  - Core Curriculum Area IV: History
  - AC 200: 3 BUS 350
  - EC 210: 3 EC 211

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#### Junior
**First Term**
- **Hours Second Term**
  - QM 214: 3 QM 215
  - MK 303
  - MG 302
  - MG 403 or DB 320
  - IS 303: 3 DB 320

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#### Senior
**First Term**
- **Hours Second Term**
  - FN 310: 3 International Business
  - MK 408: 3 General Electives
  - MK 420: 3 MK 450

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</table>

**Total credit hours: 120**

1. Select one of the following: ARH 101, MU 120, or THR 100.
2. May be taken concurrently.
3. Junior Standing (60 semester hours credit)

---

### Proposed Program of Study for a Major in Marketing - Social Media Marketing Concentration

#### Freshman
**First Term**
- **Hours Second Term**
  - EH 101: 3 Core Curriculum Area III: Natural Science (with laboratory)
  - BUS 101: 3 EH 102
  - MA 105: 3 CMST 101
  - Core Curriculum Area II: Fine Arts
  - Core Curriculum Area IV: Social and Behavioral Science

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#### Sophomore
**First Term**
- **Hours Second Term**
  - Core Curriculum Area III: Natural Science (with laboratory)
  - Core Curriculum Area II: Literature
  - Core Curriculum Area IV: History
  - AC 200: 3 EC 211
  - EC 210: 3 BUS 350

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</table>

#### Junior
**First Term**
- **Hours Second Term**
  - QM 214: 3 QM 215
  - MK 303
  - MG 302
  - MG 403 or DB 320
  - IS 303: 3 DB 320

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<tbody>
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</table>

#### Senior
**First Term**
- **Hours Second Term**
  - FN 310: 3 IS Major Elective
  - MK 408: 3 International Business
  - IS Major Elective
  - MK Elective
  - Experiential Requirement

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**Total credit hours: 120**
If DB 320 was completed rather than MG 403, an alternate 300/400 level MK elective must be completed to fulfill major requirements.

Choose from HY 101, HY 102, HY 104, HY 105, HY 120, HY 121.

Select one from: MK 416, MG 415, EC 407, FN 412, AC 440, IB 495.

Choose from IS 415, IS 416, and MG 417.

Proposed Program of Study for a Major in Industrial Distribution: Engineering Concentration

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Total credit hours: 120

1. Select one from: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select one from: ARH 101, MU 120 or THR 100.
3. May be taken concurrently.
4. Junior Standing (60 semester hours of credit).

Proposed Program of Study for a major in Industrial Distribution with a Concentration in Medical Equipment and Supplies Distribution

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<td>Core Curriculum Area IV: History</td>
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<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
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<tr>
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<td>DB 320</td>
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<tr>
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Total credit hours: 120

1. Select one from: HY 101, HY 102, HY 120 or HY 121.
2. Select one from: ARH 101, MU 120 or THR 100.
3. May be taken concurrently.
4. Junior Standing (60 semester hours of credit).
Proposed Program of Study for a Major in Economics with a Concentration in Analysis and Policy

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<td>BUS 110</td>
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<tr>
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<tr>
<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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<td></td>
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<tr>
<td></td>
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<th>Second Term</th>
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</tr>
<tr>
<td>Core Curriculum Area III: Natural Science (with laboratory)</td>
<td>4 EC 211</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: History 2</td>
<td>3 CMST 101</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16</td>
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<th>Second Term</th>
<th>Hours</th>
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<tbody>
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<td>EC 304</td>
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<td>MK 303</td>
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<th>Second Term</th>
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<td>EC 450</td>
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<td>BUS 450</td>
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<td>Economics Major Electives 3</td>
<td>6 General Elective</td>
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Total credit hours: 120

1 Select one from: ARH 101, MU 120, THR 100
2 Choose from HY 101, HY 102, HY 104, HY 105, HY 120, or HY 121
3 Select six (6) 300-level or higher Economics (EC) courses (Maximum of two (2) 400-level QM courses.)

Proposed Program of Study for a Major in Economics with a Concentration in Philosophy, Politics, and Economics

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<td>BUS 101</td>
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<td>BUS 110</td>
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<tr>
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<td>Core Curriculum Area IV: Social and Behavioral Science</td>
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<table>
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<td>QM 214</td>
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<td>LS 246</td>
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<tr>
<td>AC 200</td>
<td>3</td>
<td>QM 215</td>
<td>3</td>
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<tr>
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<tr>
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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<td>PHL 470</td>
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<td>or FN 412 3</td>
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Total credit hours: 120

1 Select one of the following: ARH 101, MU 120, THR 100
2 Choose from HY 101, HY 102, HY 104, HY 105, HY 120, or HY 121
3 Select three (3) 300-level or higher Economics (EC) courses (maximum of two (2) 400-level QM courses.)
Proposed Program of Study for a Major in Economics with a concentration in Mathematical Economics (and minor in Math)

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First Term: 16
Second Term: 14
Total: 30

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First Term: 17
Second Term: 15
Total: 32

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<tr>
<td>BUS 305</td>
<td>1 MG 403</td>
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<td>EC 407</td>
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First Term: 16
Second Term: 18
Total: 34

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<td>EC 300/400 or FN 412</td>
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First Term: 15
Second Term: 9
Total: 24

Total credit hours: 120

**College of Arts & Sciences**

Dean: Robert E. Palazzo
Senior Associate Dean for Undergraduate Academic Affairs: Catherine Daniëlou
Associate Dean for Advising: Kimberly Schnormeier
Associate Dean for Interdisciplinary and Creative Innovation: Yogesh K. Vohra
Associate Dean for Research in the Sciences: David C. Schwebel

The College of Arts and Sciences includes departments in the arts, humanities, mathematics, social, behavioral, natural and physical sciences.

The College offers 24 degree programs leading to a Bachelor’s degree and 22 programs leading to a masters or doctoral degree. Situated at the center of an internationally renowned research university and academic medical center, students and faculty in the College of Arts and Sciences have unparalleled opportunity to be part of the innovative and groundbreaking research and creative work that is the signature of UAB.

We offer a student-centered, experiential curriculum designed to prepare students not only for the careers and challenges of the 21st century, but also to be the leaders in the global marketplace of ideas. Every undergraduate program in the arts and sciences is designed to insure that students cultivate strong oral and written communication skills, proficiency in mathematical and analytical reasoning, and sophisticated appreciation of ethics and civic engagement. Graduates with an arts and sciences major develop the ability to understand diverse perspectives making them better prepared to work creatively and productively with others to solve the most important problems of our times.

Honors programs and honors level study are offered in almost every department, along with mentored research and study abroad for interested students. Our metropolitan location provides an endless number of internship placements coordinated with an academic program of study. Each year many of our students pursue at least one of these opportunities.

Interdisciplinary programs of study are increasingly interesting as we realize the benefits of multiple perspectives and methods to advance understanding and improve solutions. Students in the College of Arts and Sciences can pursue formal interdisciplinary programs such as African-American Studies or International Studies. The Bachelor of General Studies (BGS) degree is another interdisciplinary option that prepares students for careers in various professional fields where fundamental critical thinking and inquiry skills as well as rigorous writing and communication skills are of key importance. We also welcome very motivated students to work with their academic adviser and faculty to design an individualized, interdisciplinary major in a focused area. Among the fields that some of our students have chosen to focus on are: Asian Studies, Children Studies, Chinese Studies, Film Studies, Forensic Science, Health and Society, International Development, International Health, Japanese Studies, Legal Studies, New Media, Quantitative Economics, Sports and Health in Society, Translational Research, Women's Studies.

The UAB Core Curriculum requirements and the specific major and minor requirements for graduation are listed below for each Bachelor’s degree option.

**The UAB Core Curriculum**

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

**Additional Requirements**

General Electives for Majors in the College of Arts & Sciences

Departments within the College have policies on the grade level of acceptable work that may be applied towards the major or minor. A student must take general electives to reach the 120 semester hour
requirement. At least 9 semester hours of the major must be at the 400 level or above. In addition to the number of hours there is a requirement of at least a C average in courses counted toward the major and also in courses counted toward the minor for all students majoring in Biology, Chemistry, Computer and Information Sciences, Mathematics, Physics. At least one-third of the hours in both the major and minor must be completed at UAB, and at least a C average must be maintained in these courses.

Other Requirements
Requirements for students majoring or minoring in Anthropology, Communication Studies, Government, International Studies, History, Justice Sciences, Psychology, Social Work, Sociology: courses counted toward one major or minor may not be applied to meet the requirements of another major or minor; credit will be allowed for job training instructional programs that have been evaluated and approved by an agency of the American Council on Education, or comparable evaluating agency, and when the work in question is germane to the student’s program. Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4 /* Style Definitions */ table.MsoNormalTable 

Requirements for students majoring in African American Studies, Art/Art History, English, Foreign Languages, Music, Philosophy, Theatre: relevant courses counted toward one major or minor in one of these seven fields may be applied to meet the requirements of a major or minor in another of these specific fields. After doing so, if a student has not achieved the minimum required credit hours for graduation, the remaining hours may be fulfilled through courses of the student’s choosing, consistent with all other degree requirements.

Teacher Certification
UAB offers baccalaureate level (Class B) secondary (grades 6-12) teacher certification in Chemistry, Biology, General Science, History, General Social Science, English Language Arts, Mathematics, Music-Instrumental, Music-Choral, and middle school (grades 4-8) teacher certification (Class B) in Mathematics. To obtain certification in fields outside science and mathematics, students must major in their teaching field and education. Requirements for the major in the College of Arts and Sciences may be found in the appropriate department listing. To obtain certification in Chemistry, Biology, Physics, General Science, and Mathematics, students major in their teaching field and participate in the UABTeach program (Heritage Hall Building 210), which leads to a minor in STEM Education and Class B teacher certification. Requirements for the major in the College of Arts and Sciences may be found in the appropriate department listing. Because of specific Alabama Teacher Certification requirements, students seeking certification should consult with the School of Education Student Success Center (Room 100, Education Building) early in their academic careers, or consult directly with UABTeach if in science or mathematics. UAB also offers non-traditional fifth year masters’ level (Class A) certification in the above disciplines. Students majoring in one of the above fields should contact the School of Education Student Success Center for more information about program admission requirements.

Interdisciplinary Programs
Interdisciplinary programs of study are increasingly interesting as we realize the benefits of multiple perspectives and methods to advance understanding and improve solutions. Students in the College of Arts and Sciences can pursue formal interdisciplinary programs such as African-American Studies or International Studies. The Bachelor of General Studies (BGS) degree is also an interdisciplinary degree that will prepare students for careers in various professional fields where fundamental critical thinking and inquiry skills, rigorous writing and communication skills, as well as team work skills are of key importance. Other possibilities for interdisciplinary study include for example Media Studies or Film Studies at the minor level. The Interdisciplinary Minors list below indicates our choices in the College of Arts and Sciences.

We also encourage motivated students to work with their academic advisor and faculty to design an individualized, interdisciplinary major in a focused area. The Individually Designed Major option is available to all students in good standing who are interested in working independently, and can only be made possible using courses available at UAB. Among the many different fields that some of our students have chosen to focus on are Asian Studies, Children Studies, Chinese Studies, Film-making, Film Studies, Health and Society, Integrative Media, International Development, International Health, Japanese Studies, Latin American Studies, Legal Studies, Media Production, Sports and Health in Society, Social Media, Sports Economics, Women’s Studies. Students who may be interested in designing their own major should contact their academic advisor or email Dr. Catherine Daniellou at danielou@uab.edu. (danielou@uab.edu)

African American Studies

Director: Kathryn Morgan

The African American Studies Program is an interdisciplinary program that integrates the humanities, social and behavioral sciences and health related fields. A major in African American Studies leads to a Bachelor of Arts Degree. The Program also offers a minor. Since the Program requires only 40 hours for completion, students are encouraged to consider a “double major” with African American Studies.

The curriculum offered by the African American Studies Program advances knowledge about continental and diasporic African and African-American cultures and the history, literature, art, music, politics, economics, and religion associated with these cultures.

Our mission is to encourage critical thinking, develop analytical and writing skills, promote understanding and appreciation of contributions made by African Americans, and illuminate the complexity of race and the African American experience.

In addition to taking the required core classes for the major, students will have the opportunity to select one of three areas of emphasis: Global and Minority Health and Social Justice; Historical Investigation and Cultural Awareness; and History and Culture of Afro-Caribbean and Latino People.

The plan of study prepares students with critical knowledge, research skills, and communication skills to further their education in graduate and professional study in a variety of disciplines including African
American Studies, Public Health, Criminal Justice, Public Administration, and Education; obtain employment in public health, social sciences, business and related fields; communicate effectively; and demonstrate the application of knowledge through community engagement.

The revised curriculum provides students more course options for completing the requirements of the degree. The revised curriculum also provides Areas of Emphasis that lead to a variety of career and graduate school opportunities. The three areas include: Global and Minority Health and Social Justice; Historical Investigation and Cultural Awareness; and the History and Culture of Afro-Caribbean and Latino People. As an African American Studies major, students select an area of study and complete enough hours to pursue a Master’s or secure employment in that area. Students are able to develop goals early in their academic careers and strategies for achieving their goals.

Major Requirements for African American Studies

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<th>Requirements</th>
<th>Hours</th>
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<tbody>
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<td>AAS 200 Introduction to African-American Studies</td>
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<td>AAS 325 Black Psychology</td>
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<td>HY 223 African-American History to 1865</td>
<td>3</td>
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<td>AAS 330 African Aesthetics and Traditional Religion</td>
<td>3</td>
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<tr>
<td>or HY 224 African-American History Since 1865</td>
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<tr>
<td>or AAS 495 Individual Studies</td>
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Students should select an Area of Emphasis and take 15 hours from the approved courses.

MINORITY & GLOBAL PUBLIC HEALTH/SOCIAL JUSTICE

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<td>SOC 280 Introduction to Medical Sociology</td>
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<td>SOC 282 Minority Health</td>
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<td>PUH 303 Introduction to Global Health</td>
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<td>PSC 318 Politics and Race in America</td>
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<td>PSC 350 African Politics</td>
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<td>PSC 319 Civil Liberties and Civil Rights</td>
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<td>JS 230 The Judicial Process in America: An Overview</td>
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<td>AAS 300 African American Music</td>
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<td>AAS 301 History and Tradition of Gospel Music</td>
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<td>EH 468 The Harlem Renaissance</td>
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<td>HY 310 Film in the 1960s</td>
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<td>HY 312 Rock n Roll and Race Relations</td>
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<td>HY 326 Mansions, Mines, and Jim Crow</td>
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HISTORY & CULTURE OF AFRO-CARIBBEAN AND LATINO PEOPLE

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<td>SPA 416 Special Topics in Spanish</td>
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Total Hours: 40

Minor Requirements for African American Studies

Select 6 courses from the following courses:

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Proposed Program of Study for a Major in African-American Studies

Freshman

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<td>Area II: Fine</td>
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Sophomore

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<td>AAS 325</td>
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<td>Area III: Natural</td>
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Junior

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<td>EH 365</td>
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<td>Area III: Natural</td>
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<tr>
<td>Science with Lab</td>
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<td>AAS 335</td>
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Senior

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<td>AAS 301</td>
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Total credit hours: 120

1. Select One: HY 101, HY 102, HY 105, HY 120 or HY 121.
2. Select One: ARH 101, ARH 203, ARH 206, MU 120, THR 100, THR 105, or THR 200.
3. Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.
4. Take 15 hours of coursework from the selected area of emphasis
5. Must be 300 Level or above
6. Must meet with the Program Director in the semester prior to completing the Internship.

African American Studies Honors Program

PURPOSE

The purposes of the Honors Program in African American Studies are to promote academic excellence; provide opportunity for majors to do extensive study and research in the discipline; and prepare academically talented majors to pursue graduate school or professional careers.

ELIGIBILITY

• completion of required AAS courses:
  • AAS 200 Introduction to African American Studies
  • AAS 320 (African Identity and Personality),
  • AAS 350 (Research Methods in African American Studies)
• undergraduate cumulative GPA of 3.00
• GPA of 3.25 in AAS courses
• junior-senior level standing

REQUIREMENTS

• completion of required courses for the AAS major
• approval by the Program Director
• completion of AAS 497 Honors Seminar (Fall Semester)
• completion of AAS 498 Honors Thesis/Project (Spring Semester)
• formal presentation of the final project

BENEFITS

Participation in the African American Studies Honors program provides opportunities for academically talented students to have unique access to faculty and to interact with other honors students in an environment that encourages creative and innovative thinking. Seminar participation and research experience will be useful for graduate study or a career in the field. Completion of the Honors program is an advantage when applying to graduate programs. Finally, students who complete the program will be recognized at the African American Studies outstanding student ceremony and will graduate “With Honors in African American Studies.”

CONTACT

For additional information and/or admission to the African American Honors Program, please contact:

Dr. Kay Morgan, Program Director
African American Studies Program
322 Heritage Hall
Birmingham, AL 35294-1152
Phone: 205-975-9651 or 975-9652
E-mail: kmorgan@uab.edu
## Minor Requirements for American Studies

**Music, the Arts, Literature, and Philosophy**

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<td>African American Music</td>
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<td>AAS 301</td>
<td>History and Tradition of Gospel Music</td>
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<tr>
<td>AAS 330</td>
<td>African Aesthetics and Traditional Religion</td>
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<td>African American Literature II</td>
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<td>AAS 448</td>
<td>African American Poetry Tradition</td>
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<td>ARH 101</td>
<td>The Art Experience</td>
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<td>ARH 450</td>
<td>American Art to 1900</td>
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<td>ARH 464</td>
<td>Art Since 1945</td>
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<td>Modern Architecture</td>
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<td>Special Topics: Museum Studies</td>
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<td>The Evolution of Jazz</td>
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<tr>
<td>EH 223</td>
<td>American Literature I: Before 1865</td>
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<td>EH 224</td>
<td>American Literature II: 1865-Present</td>
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<td>African-American Special Topics</td>
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<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
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<td>EH/AAS 366</td>
<td>African American Literature, 1954-Present</td>
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<td>The Harlem Renaissance</td>
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<td>PHL 348</td>
<td>American Philosophy</td>
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**Social and Behavioral Sciences**

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<td>History of Sport: The African American Experience</td>
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<td>AAS 325</td>
<td>Black Psychology</td>
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<td>Introduction to African-American Studies</td>
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<td>Public Health and Medical Issues in African Communities</td>
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<td>ANTH 222</td>
<td>Prehistory of North America</td>
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<td>JS 220</td>
<td>Police in America: An Overview</td>
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<td>Corrections in America: An Overview</td>
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<td>The Death Penalty in America</td>
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<td>Introduction to American Government</td>
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<td>Introduction to American Public Policy</td>
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<td>American State and Local Government</td>
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<td>American Foreign Policy</td>
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<td>Politics and Race in America</td>
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<td>American Political Thought</td>
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<td>PSC 380</td>
<td>The Politics of Constitutional Law</td>
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<td>Sport and Society</td>
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**History**

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<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>HY 207</td>
<td>The American Film</td>
</tr>
<tr>
<td>HY 210</td>
<td>History of American Medicine</td>
</tr>
<tr>
<td>HY/AAS 223</td>
<td>African-American History to 1865</td>
</tr>
<tr>
<td>HY/AAS 224</td>
<td>African-American History Since 1865</td>
</tr>
<tr>
<td>HY 225</td>
<td>History of Alabama</td>
</tr>
<tr>
<td>HY 226</td>
<td>History and Development of Birmingham</td>
</tr>
<tr>
<td>HY 228</td>
<td>Southern Industrial History</td>
</tr>
<tr>
<td>HY 289</td>
<td>Topics in African American History</td>
</tr>
</tbody>
</table>
Environmental Science

Interdisciplinary Minor

The minor in environmental science enables students to receive a broad background both in the sciences and in the application of scientific principles to environmental problems.

Minor Requirements for Environmental Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Biology Courses ¹</td>
<td></td>
</tr>
<tr>
<td>BY 123 Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 124 Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>ES 101 Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; ES 102 and Physical Geology Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Grades Requirement

All courses applied to this minor must be completed with a grade of C or better.

Film

Interdisciplinary Minor

Director: Mack (Theatre)

Committee: Bokobza (Foreign Languages and Literatures), Danielou (College of Arts and Sciences), Forman (Media Studies/History), Lake (Art/Ant History), Millard (History), O’Beirne (Media Studies Commons), Phillips (Music), Shackleford (Theatre), Siegel (English).

The College of Arts and Sciences Interdisciplinary Film Minor is a 21-hour program. Coursework must be chosen from a minimum of 3 disciplines. Students may petition to substitute courses for up to 6 credit hours. Please contact the director of the minor for information regarding course substitutions and let your academic advisor know as well. Substitutions must be approved 6 months before graduation.

Minor Requirements for Film

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select seven (7) courses from three different disciplines from this list:</td>
<td>21</td>
</tr>
<tr>
<td>AAS 310 Black Image: Screen and Television</td>
<td></td>
</tr>
<tr>
<td>ARS 104 Four-Dimensional Design Foundations</td>
<td></td>
</tr>
<tr>
<td>ARS 110 Visual Literacy Foundations</td>
<td></td>
</tr>
<tr>
<td>ARS 260 Experimental New Media</td>
<td></td>
</tr>
<tr>
<td>ARS 280 Creativity and Imagination</td>
<td></td>
</tr>
<tr>
<td>ARS 360 New Media - Special Topics ¹</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>ARS 361</td>
<td>Survey of Animation</td>
</tr>
<tr>
<td>ARS 362</td>
<td>Fabrication Laboratory</td>
</tr>
<tr>
<td>ARS 460</td>
<td>Advanced New Media</td>
</tr>
<tr>
<td>CMST 283</td>
<td>Visual Media Production I</td>
</tr>
<tr>
<td>CMST 383</td>
<td>Visual Media Production II</td>
</tr>
<tr>
<td>CMST 483</td>
<td>Visual Media Production III</td>
</tr>
<tr>
<td>DCS 101</td>
<td>Media and Society</td>
</tr>
<tr>
<td>DCS 150</td>
<td>Introduction to Film and History</td>
</tr>
<tr>
<td>or HY 206</td>
<td>Introduction to Film and History</td>
</tr>
<tr>
<td>DCS 201</td>
<td>History of Documentary Film</td>
</tr>
<tr>
<td>DCS 208</td>
<td>Women in Film</td>
</tr>
<tr>
<td>or HY 208</td>
<td>Women in Film</td>
</tr>
<tr>
<td>or WS 280</td>
<td>Special Topics in Women’s and Gender Studies</td>
</tr>
<tr>
<td>DCS 350</td>
<td>Community and Service</td>
</tr>
<tr>
<td>DCS 390</td>
<td>Life, Liberty, and the Pursuit of Happiness: Representing American Identity on Film</td>
</tr>
<tr>
<td>DCS 401</td>
<td>Ethnographic Filmmaking/SL</td>
</tr>
<tr>
<td>or HON 316</td>
<td>Seminar: Ethnographic Filmmaking</td>
</tr>
<tr>
<td>DCS 450</td>
<td>Media and Public Service</td>
</tr>
<tr>
<td>DCS 460</td>
<td>Independent Media Studies</td>
</tr>
<tr>
<td>DCS 470</td>
<td>Internship in Media Studies</td>
</tr>
<tr>
<td>DCS 490</td>
<td>Special Topics in Media</td>
</tr>
<tr>
<td>DCS 499</td>
<td>Special Topics in Media Studies</td>
</tr>
<tr>
<td>EH 210</td>
<td>Interpreting Film</td>
</tr>
<tr>
<td>EH 431</td>
<td>Special Topics in Film</td>
</tr>
<tr>
<td>FLL 303</td>
<td>History of World Movies I: The Origins to 1960</td>
</tr>
<tr>
<td>FLL 304</td>
<td>History of World Movies II</td>
</tr>
<tr>
<td>FR 305</td>
<td>French-Speaking Cinema</td>
</tr>
<tr>
<td>HY 305</td>
<td>Popular Culture in American History</td>
</tr>
<tr>
<td>HY 307</td>
<td>The American Film</td>
</tr>
<tr>
<td>HY 309</td>
<td>American Independent Film</td>
</tr>
<tr>
<td>HY 310</td>
<td>Film in the 1960s</td>
</tr>
<tr>
<td>HY 431</td>
<td>American Film and Violent Society</td>
</tr>
<tr>
<td>MU 115</td>
<td>Computer Music I</td>
</tr>
<tr>
<td>MU 245</td>
<td>Recording Technology I</td>
</tr>
<tr>
<td>MU 441</td>
<td>Multimedia Productions</td>
</tr>
<tr>
<td>SOC 316</td>
<td>Popular Culture</td>
</tr>
<tr>
<td>THR 102</td>
<td>Introduction to Cinema</td>
</tr>
<tr>
<td>THR 126</td>
<td>Film Technology: Cinematography, Audio and Editing</td>
</tr>
<tr>
<td>THR 200</td>
<td>Plays on Film</td>
</tr>
<tr>
<td>THR 216</td>
<td>Screenwriting I</td>
</tr>
<tr>
<td>THR 279</td>
<td>Cinematography</td>
</tr>
<tr>
<td>THR 316</td>
<td>Screenwriting II</td>
</tr>
<tr>
<td>THR 374</td>
<td>Video Editing</td>
</tr>
<tr>
<td>THR 375</td>
<td>Beginning Narrative Filmmaking</td>
</tr>
<tr>
<td>THR 376</td>
<td>Intermediate Narrative Filmmaking</td>
</tr>
<tr>
<td>THR 377</td>
<td>Acting for the Camera</td>
</tr>
<tr>
<td>THR 378</td>
<td>Film Directing</td>
</tr>
<tr>
<td>THR 475</td>
<td>Advanced Narrative Filmmaking</td>
</tr>
<tr>
<td>THR 476</td>
<td>Audio for Film: Recording and Mixing</td>
</tr>
<tr>
<td>THR 478</td>
<td>Music Video Production</td>
</tr>
<tr>
<td>THR 480</td>
<td>Individual Project in Film</td>
</tr>
<tr>
<td>THR 489</td>
<td>Individual Studies in Film</td>
</tr>
<tr>
<td>THR 492</td>
<td>Film Internship/Capstone</td>
</tr>
</tbody>
</table>

General Studies

Bachelor of General Studies

Director: Catherine Daniélou
College of Arts and Sciences Dean’s Office

The Bachelor of General Studies (BGS) degree is a flexible interdisciplinary degree that allows students to choose a general curriculum that meets their individual goals and provides room for exploration and inquiry. The BGS prepares students for careers in various professional fields, including government, health care, real estate, general social services and the service-producing sector, law, retail, and private industry where fundamental critical thinking and inquiry skills as well as rigorous writing and communication skills are of key importance.

The Bachelor of General Studies is a broad-based option supported by all undergraduate programs offering a minor at UAB. UAB offers a choice of over 80 minors. The BGS program integrates all our undergraduate campus in the choice of options. The program goals are to 1) equip students with a broad-based higher education allowing them to perform efficiently in the workplace; 2) prepare students to understand an increasingly complex and multifaceted world; and 3) help students to demonstrate a multidisciplinary base of knowledge.

Undergraduate students graduating with a degree in General Studies work with the assigned BGS advisor and select two minors of their choice offered at UAB. Graduating students are expected to: (1) write, communicate, and present effectively; (2) evaluate and interpret information as well as societal issues critically and analytically; (3) apply knowledge and modes of inquiry from several disciplines; (4) demonstrate integrative learning.

The Bachelor of General Studies provides broad well-rounded rigorous educational opportunities to traditional and non-traditional students contemplating careers for which a Bachelor's degree and university-level reading, writing, communication and critical thinking skills are required.

Major Requirements for the Bachelor of General Studies

Degree requirements:

Successful completion of any 2 UAB minors* of student choice

Capstone Requirement:

Select one of the following:

CAS 400 – General Studies Career Readiness Capstone (1 credit)

Or another UAB approved Capstone course

Total Hours: Estimated 36 – 51 hours (minors being a minimum of 18 hours)**

*Students majoring in General Studies must achieve a grade of C or higher in all courses applied toward the major requirement.

**Students majoring in General Studies must complete 9 hours at the 400 level or above taken at UAB.

**A single course may not count toward more than one minor requirement.
Gerontology

Interdisciplinary Minor

**Director:** Patricia L. Sawyer  
**Committee on Undergraduate and Graduate Education in Gerontology Director:** Sawyer (Center for Aging)  
**Associate Director:** Shevchenko (Health Professions)  
**Members:** Austad (Biology), Ball (Psychology), Curtis (Division of Gerontology, Geriatrics, and Palliative Care), Fordham (Nursing), Galvin (Public Health), Ghana (Biology), Wadley (Psychology)

Gerontology is the study of processes of aging in all their diversity—the complex interaction of individual, social, and organizational phenomena producing change over the entire life span. Gerontological education necessarily encompasses many traditional disciplines in the biological, behavioral, medical, and social sciences, as well as numerous professional specialties. The philosophy of the Gerontology Education Program is that research and instruction of the highest quality are achieved when faculty and students are trained within their parent discipline or field and apply their insights to questions of aging through interdisciplinary education. In this sense, students bring a firm disciplinary background with a specialized body of knowledge into their future endeavors.

UAB’s Gerontology Education Program offers interdisciplinary courses in gerontology, leading to an undergraduate minor. The study of gerontology at this level provides students educated in various disciplines with the background needed to work in programs related to aging and the aged. The program’s main goals are to provide students with a thorough background in existing theory and research in gerontology and to supplement their existing backgrounds and professional disciplines.

The academic program is administered by the director of the Gerontology Education Program. The director is also responsive to the guidance of the Committee on Undergraduate and Graduate Education in Gerontology and serves as chair of the committee. The committee is made up of representatives from academic departments throughout UAB who are active in the study of aging and the aged. The director reports to the dean of the College of Arts and Sciences and to the director of the Center for Aging.

The multidisciplinary gerontology program is offered to all UAB students in good standing. The program has the sponsorship and support of the College of Arts and Sciences and the Center for Aging. Students may obtain the program’s *Operating Policies: Standards and Procedures Manual* through the program director.

**Minor Requirements for Gerontology**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Gerontology Courses</strong></td>
<td></td>
</tr>
<tr>
<td>GER 280 Biology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GER 425 Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GER 469 Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td><strong>Practicum or Independent Reading/Research Project</strong></td>
<td></td>
</tr>
<tr>
<td>Complete a practicum or independent reading or research project for three credit hours. See your advisor for details.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Gerontology Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select six hours from Gerontology (GER) courses</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

**Grade Requirement**

A grade of C or better is required in all courses applied to the minor. Additionally, students must have a GPA of at least 2.5 in all courses applied to the minor.

International Studies

Interdisciplinary Major and Minor

**Director:** Renato Corbetta  
**Faculty:** Corbetta, Sharlach, Zahariadis (Government); Kyle (Anthropology), Liber, Murray, Van Sant, Ward (History); Biga, Cockerham (Sociology); Cummings (Art and Art History); Danielou (Foreign Languages and Literatures)

The International Studies Program promotes a holistic appreciation of the different values and structures that characterize the world’s diverse societies, as well as an understanding of the institutions that produce economic, social, cultural, and political interdependence among nations.

A major or minor in international studies provides students with the background necessary to pursue a variety of public and private-sector careers. Employment opportunities are as numerous and varied as the interests and abilities of individual students. Majors may find employment in diplomatic or foreign service; international business, law, or labor relations; international development, social service, the travel industry, or health agencies and cultural organizations. Many of our students pursue graduate work in the fields of international relations, international development, peace studies, conflict resolution studies, public health, or law. We encourage all International Studies majors to study abroad, minor in a foreign language, and hope that they will pursue internship opportunities as well. The minor complements any major area by providing students with an international focus in their field.

The program is administered by the College of Arts and Sciences. In addition, courses taught in other schools and professional programs at UAB may be relevant to the curriculum developed by a student in pursuit of his or her specific career goals.

International Studies is an interdisciplinary major. Courses eligible to apply to this major may vary with the emphasis that a student chooses. See your advisor for identifying an appropriate curriculum in your area of interest.

Major Requirements for International Studies

**Requirements**

**Required International Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103</td>
<td>Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>FLL 120</td>
<td>Foreign Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ITS 470/PSC 402</td>
<td>Seminar in International Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ITS 471/PSC 403</td>
<td>Seminar in International Studies</td>
<td></td>
</tr>
<tr>
<td>ITS 482</td>
<td>Internship in International Affairs</td>
<td>3</td>
</tr>
</tbody>
</table>

**Economic Awareness**

Select one of the following:  
- ANTH 318 Anthropology of Development  
- ANTH 365 Economic Anthropology
EC 210  Principles of Microeconomics
EC 211  Principles of Macroeconomics
EC 304  Microeconomics
EC 305  Macroeconomics
EC 405  Economic Development and Growth
EC 407  International Economics
MG 305  Nonprofit Organization Mgmt/SL
PSC 355  Politics of Development
PSC 461  International Political Economy

**Socio-Political Concentration**
Select three of the following courses, from at least two different departments:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 242</td>
<td>Peoples of World/South America Indians</td>
</tr>
<tr>
<td>ANTH 244</td>
<td>Peoples of the World: Africa</td>
</tr>
<tr>
<td>ANTH 245</td>
<td>Peoples of the World: Mediterranean</td>
</tr>
<tr>
<td>ANTH 247</td>
<td>Peoples of the World: Oceania</td>
</tr>
<tr>
<td>ANTH 248</td>
<td>Peoples of the World: Latin America</td>
</tr>
<tr>
<td>ANTH 299</td>
<td>Contemporary Global Issues</td>
</tr>
<tr>
<td>ANTH 330</td>
<td>Nationalism Ethnicity and Violence</td>
</tr>
<tr>
<td>ANTH 351</td>
<td>Anthropology of Human Rights</td>
</tr>
<tr>
<td>ANTH 459</td>
<td>Politics, Drugs and Society in Latin America</td>
</tr>
<tr>
<td>HY 234</td>
<td>The World Since 1945</td>
</tr>
<tr>
<td>HY 245</td>
<td>Introduction to Latin American History</td>
</tr>
<tr>
<td>HY 247</td>
<td>Indians, Spaniards &amp; Creoles</td>
</tr>
<tr>
<td>HY 248</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>HY 257</td>
<td>The Celtic Fringe: Ireland, Scotland, Wales</td>
</tr>
<tr>
<td>HY 262</td>
<td>Introduction to Early Modern Spanish History</td>
</tr>
<tr>
<td>HY 263</td>
<td>History of the Russian Empire</td>
</tr>
<tr>
<td>HY 265</td>
<td>History of the Soviet Union 1917-1991</td>
</tr>
<tr>
<td>HY 272</td>
<td>Modern East Asia</td>
</tr>
<tr>
<td>HY 315</td>
<td>Egypt in the Age of the Pyramids</td>
</tr>
<tr>
<td>HY 316</td>
<td>Imperial and Post-Imperial Egypt</td>
</tr>
<tr>
<td>HY 317</td>
<td>History of Ancient Greece</td>
</tr>
<tr>
<td>HY 318</td>
<td>History of the Roman Empire</td>
</tr>
<tr>
<td>HY 319</td>
<td>Late Antiquity and Early Middle Ages</td>
</tr>
<tr>
<td>HY 337</td>
<td>Eastern Europe 1600-1918</td>
</tr>
<tr>
<td>HY 338</td>
<td>Eastern Europe 1914-Present</td>
</tr>
<tr>
<td>HY 341</td>
<td>US-Latin American Relations</td>
</tr>
<tr>
<td>HY 342</td>
<td>Sex &amp; Latin American Society</td>
</tr>
<tr>
<td>HY 343</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>HY 360</td>
<td>The Celtic Fringe: Ireland, Scotland, Wales</td>
</tr>
<tr>
<td>HY 361</td>
<td>Britain and the Third World</td>
</tr>
<tr>
<td>HY 372</td>
<td>Modern East Asia</td>
</tr>
<tr>
<td>HY 375</td>
<td>The Pacific War, 1931-1945</td>
</tr>
<tr>
<td>HY 376</td>
<td>Japan and the United States</td>
</tr>
<tr>
<td>HY 419</td>
<td>The Second World War</td>
</tr>
<tr>
<td>HY 421</td>
<td>The Vietnam Wars, 1945-1975</td>
</tr>
<tr>
<td>HY 446</td>
<td>Nations of the Andes</td>
</tr>
<tr>
<td>HY 447</td>
<td>Modern Mexico</td>
</tr>
<tr>
<td>HY 453</td>
<td>Clash of Civilizations</td>
</tr>
<tr>
<td>HY 456</td>
<td>Seventeenth-Century Europe: Absolutism, Revolution and Science</td>
</tr>
<tr>
<td>HY 457</td>
<td>Nineteenth-Century Europe</td>
</tr>
<tr>
<td>HY 458</td>
<td>Modern Europe</td>
</tr>
<tr>
<td>HY 460</td>
<td>Ancient and Medieval Britain</td>
</tr>
<tr>
<td>HY 462</td>
<td>Early Modern Britain</td>
</tr>
<tr>
<td>HY 464</td>
<td>Modern Great Britain</td>
</tr>
<tr>
<td>HY 466</td>
<td>The French Revolution</td>
</tr>
<tr>
<td>HY 467</td>
<td>Modern France 1815 - Present</td>
</tr>
<tr>
<td>HY 468</td>
<td>German Catastrophe 1815-2012</td>
</tr>
<tr>
<td>HY 469</td>
<td>Stalin and Stalinism</td>
</tr>
<tr>
<td>HY 470</td>
<td>The Soviet Union Since 1953</td>
</tr>
<tr>
<td>HY 471</td>
<td>Russian Intellectual History</td>
</tr>
<tr>
<td>HY 472</td>
<td>Terror and Terrorism from French Revolution to Present</td>
</tr>
<tr>
<td>HY 475</td>
<td>Modern China</td>
</tr>
<tr>
<td>HY 476</td>
<td>Japan to the 19th Century</td>
</tr>
<tr>
<td>HY 477</td>
<td>Modern Japan</td>
</tr>
<tr>
<td>JS 115</td>
<td>Comparative Criminal Justice Systems</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Introduction to Comparative Politics</td>
</tr>
<tr>
<td>PSC 260</td>
<td>American Foreign Policy</td>
</tr>
<tr>
<td>PSC 266/466</td>
<td>The United Nations</td>
</tr>
<tr>
<td>PSC 350</td>
<td>African Politics</td>
</tr>
<tr>
<td>PSC 351</td>
<td>European Political Systems</td>
</tr>
<tr>
<td>PSC 352</td>
<td>Latin/South American Political Systems</td>
</tr>
<tr>
<td>PSC 353</td>
<td>Asian Political Systems</td>
</tr>
<tr>
<td>PSC 354</td>
<td>East European Politics</td>
</tr>
<tr>
<td>PSC 360</td>
<td>International Security</td>
</tr>
<tr>
<td>PSC 361</td>
<td>North/South International Relations</td>
</tr>
<tr>
<td>PSC 362</td>
<td>Diplomacy</td>
</tr>
<tr>
<td>PSC 363</td>
<td>Nationalism in World Politics</td>
</tr>
<tr>
<td>PSC 456</td>
<td>Riots Resistance Rebellion</td>
</tr>
<tr>
<td>PSC 457</td>
<td>Human Trafficking</td>
</tr>
<tr>
<td>PSC 465</td>
<td>International Law</td>
</tr>
<tr>
<td>SOC 200</td>
<td>Social Change</td>
</tr>
<tr>
<td>SOC 278</td>
<td>Global and International Sociology</td>
</tr>
</tbody>
</table>

**Cultural Literacy**
Select three of the following courses, from at least two different departments:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 104</td>
<td>Introduction to Peace Studies</td>
</tr>
<tr>
<td>ANTH 303</td>
<td>The Conquest of Mexico</td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Food and Culture</td>
</tr>
<tr>
<td>ANTH 320</td>
<td>Comparative Religion</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>Anthropology of Gender</td>
</tr>
<tr>
<td>ANTH 370</td>
<td>Music in World Cultures</td>
</tr>
<tr>
<td>ANTH 404</td>
<td>Human Rights, Peace, and Justice</td>
</tr>
<tr>
<td>ANTH 409</td>
<td>Peace through Global Governance</td>
</tr>
<tr>
<td>ANTH 412</td>
<td>Peaceful Societies and Peace Systems</td>
</tr>
<tr>
<td>ANTH 421</td>
<td>Technological Monitoring of Human Rights and Conflicts</td>
</tr>
<tr>
<td>ANTH 446</td>
<td>Explorers, Mummies and Hieroglyphs</td>
</tr>
<tr>
<td>ANTH 447</td>
<td>Advanced Peace Studies</td>
</tr>
<tr>
<td>ANTH 450</td>
<td>Advanced Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 483</td>
<td>Intern in Peace, Justice and Ecology</td>
</tr>
<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
</tr>
<tr>
<td>ARH 203</td>
<td>Ancient and Medieval Art</td>
</tr>
<tr>
<td>ARH 204</td>
<td>Early Modern-Contemporary Art</td>
</tr>
<tr>
<td>ARH 206</td>
<td>Survey of Asian Art</td>
</tr>
<tr>
<td>EH 217</td>
<td>World Literature I: Before 1680</td>
</tr>
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<td>EH 218</td>
<td>World Literature II: 1660-Present</td>
</tr>
<tr>
<td>FLL 220</td>
<td>Foreign Literatures in English Translation</td>
</tr>
<tr>
<td>HY 218</td>
<td>History of the Roman Empire</td>
</tr>
<tr>
<td>HY 230</td>
<td>Middle East 550 BCE to 1453 CE</td>
</tr>
<tr>
<td>HY 235</td>
<td>War in the Modern World</td>
</tr>
</tbody>
</table>
# Proposed Program of Study for a Major in International Studies

## Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>EH 101</td>
<td></td>
<td>3 EH 102</td>
<td>3</td>
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<tr>
<td>MA 110</td>
<td></td>
<td>3 Core Curriculum Area II: Foreign Language</td>
<td>4</td>
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<tr>
<td>PSC 103</td>
<td></td>
<td>3 Core Curriculum Area IV: History</td>
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<tr>
<td>Core Curriculum Area IV: History</td>
<td>3 Core Curriculum Area IV: Social or Behavioral Sciences</td>
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- **Total Hours**: 15
- **Total Hours**: 16

## Sophomore

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<thead>
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<tbody>
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<td>FLL 120</td>
<td>3 International Studies Major Courses</td>
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<tr>
<td>International Studies Major Course</td>
<td>3 Core Curriculum Area III: Natural Science with Laboratory</td>
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<td>Core Curriculum Area II: Literature</td>
<td>3 Core Curriculum Area II: Humanities</td>
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<tr>
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<td>4 Foreign Language (200-level)</td>
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<tr>
<td>Core Curriculum Area III: Natural Science with Lab</td>
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- **Total Hours**: 17
- **Total Hours**: 16

## Junior

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<th>Hours</th>
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<tr>
<td>ITS 470</td>
<td>3 International Studies Major Course (300-level or above)</td>
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<tr>
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<td>3 International Studies Major Course (400-level)</td>
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<tr>
<td>Forigen Language (200-level)</td>
<td>3 Minor</td>
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<tr>
<td>Minor</td>
<td>3 General Elective</td>
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<tr>
<td>General Elective</td>
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</table>

- **Total Hours**: 15
- **Total Hours**: 15

## Senior

<table>
<thead>
<tr>
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<th>Hours</th>
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<tbody>
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<td>3 International Studies Major Course</td>
<td>6</td>
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</tr>
<tr>
<td>International Studies Major Course (400-level)</td>
<td>3 General Electives</td>
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<tr>
<td>General Electives</td>
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</tbody>
</table>

- **Total Hours**: 15
- **Total Hours**: 15

## Total credit hours: 124

A minor is required for the International Studies major. All core courses must be from the approved list for Core Area I-IV. The number of minor courses and general electives may vary.

### Minor Requirements for International Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
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<tr>
<td>PSC 103</td>
<td>Introduction to International Relations</td>
</tr>
<tr>
<td>FLL 120</td>
<td>Foreign Cultures</td>
</tr>
</tbody>
</table>

### Grade and Level Requirement

A grade of C or better is required in all International Studies courses. Students must demonstrate second-year proficiency in a foreign language. Students must ensure that at least 9 hours are taken in an approved geographic concentration. Geographic areas currently include Europe, Africa, Asia, Latin America and the Middle East. At least 15 credits must be taken at the 300 level including 9 hours at 400 level. Students must fulfill an international experience. This requirement may be satisfied by one of the following: participation in a study abroad program; participation in a course with a substantial international, applied component to it; participation in the Model Arab League simulation or its equivalent; or participation in an internship with an international organization or company or an entity offering an international component.

### Additional Requirements

#### General Electives

Students must take general electives to reach the 120 semester hour requirement.

<table>
<thead>
<tr>
<th>Course (300 level or above)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 285</td>
<td>Mapping Our World</td>
</tr>
<tr>
<td>HY 314</td>
<td>Roman Republic</td>
</tr>
<tr>
<td>HY 330</td>
<td>Middle East 550 BCE to 1453 CE</td>
</tr>
<tr>
<td>HY 271/371</td>
<td>Traditional East Asian History and Culture</td>
</tr>
<tr>
<td>HY 357</td>
<td>Religion in Early Modern European History</td>
</tr>
<tr>
<td>HY 371</td>
<td>Traditional East Asian History and Culture</td>
</tr>
<tr>
<td>HY 370</td>
<td>End of the U.S.S.R.</td>
</tr>
<tr>
<td>HY 454</td>
<td>Topics in Middle Eastern History</td>
</tr>
<tr>
<td>HY 459</td>
<td>Spain and the Spanish Inquisition</td>
</tr>
<tr>
<td>HY 465</td>
<td>French Enlightenment</td>
</tr>
<tr>
<td>HY 478</td>
<td>Topics in European History</td>
</tr>
<tr>
<td>MU 366</td>
<td>Music in World Cultures</td>
</tr>
<tr>
<td>MU 367</td>
<td>Introduction to Ethnomusicology</td>
</tr>
<tr>
<td>PHL 232</td>
<td>Classical Political Thought</td>
</tr>
<tr>
<td>PHL 233</td>
<td>Modern Political Theory</td>
</tr>
<tr>
<td>PHL 239</td>
<td>Classical Thought of India China and the West</td>
</tr>
<tr>
<td>PSC 104</td>
<td>Introduction to Political Theory</td>
</tr>
<tr>
<td>PSC 341</td>
<td>Classical Political Thought</td>
</tr>
<tr>
<td>PSC 342</td>
<td>Modern Political Theory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course (400 level)</th>
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</thead>
<tbody>
<tr>
<td>ENH 400</td>
<td>Our Global Environment: Issues and Challenges</td>
</tr>
<tr>
<td>ENH 405</td>
<td>Nature vs. Nurture: Genes, Environment and Health</td>
</tr>
<tr>
<td>FLL 303</td>
<td>History of World Movies I: The Origins to 1960</td>
</tr>
<tr>
<td>FLL 304</td>
<td>History of World Movies II</td>
</tr>
<tr>
<td>FLL 485</td>
<td>Foreign Language Capstone Seminar</td>
</tr>
<tr>
<td>HY 339</td>
<td>The Holocaust</td>
</tr>
<tr>
<td>HY 422</td>
<td>Ethnic Cleansing &amp; Genocide 1912-2012</td>
</tr>
<tr>
<td>PUH 302</td>
<td>Epid: Beyond the Outbreak</td>
</tr>
<tr>
<td>PUH 303</td>
<td>Introduction to Global Health</td>
</tr>
</tbody>
</table>

**Total Hours**: 39

### Electives

Students must take six semester hours from any of the above approved list of courses AND/OR from the list below:

- ANTH 207: Introduction to Egyptian Archaeology
- ANTH 285: Mapping Our World
- ANTH 304: Looking at Earth: Maps Satellite Images and GIS
- CMST 416: Issues in Global Communication
- ENH 400: Our Global Environment: Issues and Challenges
- ENH 405: Nature vs. Nurture: Genes, Environment and Health
- FLL 303: History of World Movies I: The Origins to 1960
- FLL 304: History of World Movies II
- FLL 485: Foreign Language Capstone Seminar
- HY 339: The Holocaust
- HY 422: Ethnic Cleansing & Genocide 1912-2012
- PUH 302: Epid: Beyond the Outbreak
- PUH 303: Introduction to Global Health
Select nine hours from the following courses, at least six hours must be taken at the 300 level or above:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 104</td>
<td>Introduction to Peace Studies</td>
</tr>
<tr>
<td>ANTH 123</td>
<td>Comparative Cultures through Films</td>
</tr>
<tr>
<td>ANTH 204</td>
<td>Food in Antiquity</td>
</tr>
<tr>
<td>ANTH 207</td>
<td>Introduction to Egyptian Archaeology</td>
</tr>
<tr>
<td>ANTH 225</td>
<td>Mesoamerican Archaeology</td>
</tr>
<tr>
<td>ANTH 231</td>
<td>Archaeology of the Origins of Civilization in Egypt, Mesopotamia, and the Mediterranean</td>
</tr>
<tr>
<td>ANTH 242</td>
<td>Peoples of World/South America Indians</td>
</tr>
<tr>
<td>ANTH 244</td>
<td>Peoples of the World: Africa</td>
</tr>
<tr>
<td>ANTH 245</td>
<td>Peoples of the World/Mediterranean</td>
</tr>
<tr>
<td>ANTH 247</td>
<td>Peoples of the World: Oceania</td>
</tr>
<tr>
<td>ANTH 248</td>
<td>Peoples of the World: Latin America</td>
</tr>
<tr>
<td>ANTH 290</td>
<td>Study Abroad: Chilapa, Guerrero, Mexico</td>
</tr>
<tr>
<td>ANTH 299</td>
<td>Contemporary Global Issues</td>
</tr>
<tr>
<td>ANTH 304</td>
<td>Looking at Earth: Maps Satellite Images and GIS</td>
</tr>
<tr>
<td>ANTH 305</td>
<td>World Prehistory</td>
</tr>
<tr>
<td>ANTH 318</td>
<td>Anthropology of Development</td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Food and Culture</td>
</tr>
<tr>
<td>ANTH 320</td>
<td>Comparative Religion</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>Anthropology of Gender</td>
</tr>
<tr>
<td>ANTH 361</td>
<td>Kinship and Social Organization</td>
</tr>
<tr>
<td>ANTH 365</td>
<td>Economic Anthropology</td>
</tr>
<tr>
<td>ANTH 366</td>
<td>Urban Anthropology</td>
</tr>
<tr>
<td>ANTH 370</td>
<td>Music in World Cultures</td>
</tr>
<tr>
<td>ANTH 447</td>
<td>Advanced Peace Studies</td>
</tr>
<tr>
<td>ANTH 450</td>
<td>Advanced Cultural Anthropology</td>
</tr>
<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
</tr>
<tr>
<td>ARH 203</td>
<td>Ancient and Medieval Art</td>
</tr>
<tr>
<td>ARH 204</td>
<td>Early Modern-Contemporary Art</td>
</tr>
<tr>
<td>ARH 206</td>
<td>Survey of Asian Art</td>
</tr>
<tr>
<td>EC 405</td>
<td>Economic Development and Growth</td>
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<tr>
<td>EC 407</td>
<td>International Economics</td>
</tr>
<tr>
<td>EH 217</td>
<td>World Literature I: Before 1660</td>
</tr>
<tr>
<td>EH 218</td>
<td>World Literature II: 1660-Present</td>
</tr>
<tr>
<td>EH 242</td>
<td>Greek and Roman Mythology</td>
</tr>
<tr>
<td>EH 421</td>
<td>World Literature</td>
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<tr>
<td>EH 422/522</td>
<td>African Literature</td>
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<td>EH 423/523</td>
<td>African Women's Literature</td>
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<td>FLL 220</td>
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<td>FLL 303</td>
<td>History of World Movies I: The Origins to 1960</td>
</tr>
<tr>
<td>FLL 304</td>
<td>History of World Movies II</td>
</tr>
<tr>
<td>FLL 305</td>
<td>Borders and Crossings inside the Global Village</td>
</tr>
<tr>
<td>FLL 485</td>
<td>Foreign Language Capstone Seminar</td>
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<tr>
<td>HY 234</td>
<td>The World Since 1945</td>
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<td>HY 237</td>
<td>Eastern Europe 1600-1918</td>
</tr>
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<td>HY 238</td>
<td>Eastern Europe 1914-Present</td>
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<tr>
<td>HY 239</td>
<td>The Holocaust</td>
</tr>
<tr>
<td>HY 245</td>
<td>Introduction to Latin American History</td>
</tr>
<tr>
<td>HY 247</td>
<td>Indians, Spaniards &amp; Creoles</td>
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<tr>
<td>HY 248</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>HY 251</td>
<td>Nineteenth-Century Europe</td>
</tr>
<tr>
<td>HY 252</td>
<td>Twentieth Century Europe</td>
</tr>
<tr>
<td>HY 257</td>
<td>The Celtic Fringe: Ireland, Scotland, Wales</td>
</tr>
<tr>
<td>HY 258</td>
<td>Britain and the Third World</td>
</tr>
<tr>
<td>HY 262</td>
<td>Introduction to Early Modern Spanish History</td>
</tr>
<tr>
<td>HY 263</td>
<td>History of the Russian Empire</td>
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<td>HY 264</td>
<td>Russian Revolution: 1917-1921</td>
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<td>HY 265</td>
<td>History of the Soviet Union 1917-1991</td>
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<tr>
<td>HY 271</td>
<td>Traditional East Asian History and Culture</td>
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<td>HY 272</td>
<td>Modern East Asia</td>
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<tr>
<td>HY 285</td>
<td>Mapping Our World</td>
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<td>HY 315</td>
<td>Egypt in the Age of the Pyramids</td>
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<td>HY 316</td>
<td>Imperial and Post-Imperial Egypt</td>
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<td>HY 317</td>
<td>History of Ancient Greece</td>
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<td>HY 318</td>
<td>History of the Roman Empire</td>
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<tr>
<td>HY 319</td>
<td>Late Antiquity and Early Middle Ages</td>
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<td>US-Latin American Relations</td>
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<td>Sex &amp; Latin American Society</td>
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<td>HY 343</td>
<td>Modern Latin America</td>
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<td>HY 353</td>
<td>The Christians in History</td>
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<td>The Reformation</td>
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<td>The Celtic Fringe: Ireland, Scotland, Wales</td>
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<td>HY 361</td>
<td>Britain and the Third World</td>
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<tr>
<td>HY 370</td>
<td>End of the U.S.S.R.</td>
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<td>HY 371</td>
<td>Traditional East Asian History and Culture</td>
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<td>Japan and the United States</td>
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<td>HY 421</td>
<td>The Vietnam Wars, 1945-1975</td>
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<td>Ethnic Cleansing &amp; Genocide 1912-2012</td>
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<td>Nations of the Andes</td>
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<td>HY 455</td>
<td>Renaissance and Reformation</td>
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<td>HY 456</td>
<td>Seventeenth-Century Europe: Absolutism, Revolution and Science</td>
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<td>HY 457</td>
<td>Nineteenth-Century Europe</td>
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<td>Modern Europe</td>
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<td>Spain and the Spanish Inquisition</td>
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<td>Ancient and Medieval Britain</td>
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<td>HY 461</td>
<td>English History: 1307-1660</td>
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<td>HY 462</td>
<td>Early Modern Britain</td>
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<td>HY 463</td>
<td>Victorian Britain</td>
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<td>HY 464</td>
<td>Modern Great Britain</td>
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<td>French Enlightenment</td>
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<td>HY 466</td>
<td>The French Revolution</td>
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<td>Modern France 1815 - Present</td>
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<td>German Catastrophe 1815-2012</td>
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<td>Stalin and Stalinism</td>
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<td>HY 470</td>
<td>The Soviet Union Since 1953</td>
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<td>HY 471</td>
<td>Russian Intellectual History</td>
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<td>HY 472</td>
<td>Terror and Terrorism from French Revolution to Present</td>
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<tr>
<td>HY 475</td>
<td>Modern China</td>
</tr>
<tr>
<td>HY 476</td>
<td>Japan to the 19th Century</td>
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</table>
HY 477  Modern Japan
ITS 482  Internship in International Affairs
JS 115  Comparative Criminal Justice Systems
MU 366  Music in World Cultures
MU 367  Introduction to Ethnomusicology
PHL 232  Classical Political Thought
PHL 233  Modern Political Theory
PHL 239  Classical Thought of India China and the West
PSC 102  Introduction to Comparative Politics
PSC 104  Introduction to Political Theory
PSC 260  American Foreign Policy
PSC 266/466 The United Nations
PSC 341  Classical Political Thought
PSC 342  Modern Political Theory
PSC 350  African Politics
PSC 351  European Political Systems
PSC 352  Latin/South American Political Systems
PSC 353  Asian Political Systems
PSC 354  East European Politics
PSC 355  Politics of Development
PSC 360  International Security
PSC 361  North/South International Relations
PSC 362  Diplomacy
PSC 363  Nationalism in World Politics
PSC 461  International Political Economy
PSC 465  International Law
PUH 302  Epid: Beyond the Outbreak
PUH 303  Introduction to Global Health
PY 319  Psychopathology and Culture
SOC 200  Social Change
SOC 278  Global and International Sociology
SOC 279  Contemporary China
SOC 335  Human Sexuality: A Comparative Approach
SOC 480  Sociology of Health and Illness

Total Hours 18

Grade & Residency Requirement
A C or better is required in all International Studies courses applied to the minor. At least half of the minor must be completed at UAB or through BACHE.

Honors Program in International Studies

Purpose
The ITS Honors Program is designed for qualified, self-motivated international studies majors. Through special course distribution and credit hours requirements, as well as a directed honors thesis, students are prepared for in-depth ITS research and related graduate or professional opportunities.

Eligibility
Students must meet the following eligibility criteria:
1. 3.0 cumulative GPA at UAB, 3.3 GPA in ITS (and maintenance of these minima).
2. Junior standing.
3. Declaration of ITS as student’s major.
4. Letter of Intent to the Director. The Director approves admission into the program in consultation with the ITS faculty.

Requirements
Students are required to successfully complete the following:
1. Completion of ITS 470 or ITS 471 Seminar in International Studies (3 credits).
2. Enrollment in ITS 497 Honors Research in International Studies (3 credits) after completion of the Seminar.
3. Following completion of ITS 497, preparation of an advanced research project which will lead to the development of a substantial research paper and, in some cases, a senior thesis under faculty supervision (all faculty affiliated with ITS are eligible to supervise the paper).
4. Defense of paper/thesis in colloquium, composed of ITS faculty and other ITS 497 students
5. Participation in SIR, the international studies honor society.

Benefits
Honors students will benefit from one-on-one mentoring with faculty in the program, which will lead to a more thorough understanding of the field and practice of international studies. This is particularly useful as students choose career goals, such as graduate school, international public service, the U.S. Foreign Service, or other opportunities. Additionally, students who complete the program will receive a certificate at the annual UAB Honors Convocation and will graduate “With Honors in International Studies.”

Contact
For more information and/or admission to the International Studies Honors Program, contact the ITS Director, 560 Heritage Hall, UAB, Birmingham, AL 35294-1152; Telephone (205) 934-5643.

Media Studies

Interdisciplinary Minor

Director: Michele Forman (Department of History)
The Media Studies minor is an interdisciplinary program for students interested in learning the theory and production practices of new media technology. The minor provides students a solid grounding in the history, theory and practice of documentary film, film history, oral history, ethnography, community studies, and media theory. Students will gain experience in community-based research, as well as attain proficiency in various new media technologies.

The courses are taught by members of the UAB Arts and Sciences faculty, offering students instruction in digital video cinematography, field audio recording, computer-based editing, applied research techniques, and professional presentation methods. The minor in Media Studies emphasizes experiential learning and offers students opportunities for hands-on participation in local communities through service learning and internships with non-profit organizations, businesses, and educational and governmental institutions.
Requirements
The Media Studies minor will require 18 semester hours, including three courses in the core for the minor (9 hours), six hours of additional advanced media studies coursework (either 2 courses or one 6 hour-course), and one elective (3 hours). The elective will be drawn from a number of relevant courses already existing in the curriculum of the College of Arts and Sciences involving technology, media, and/or community studies. No grade below C will be counted as credit for the minor.

Minor Requirements for Media Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Studies Core</td>
<td>9</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
</tr>
<tr>
<td>DCS 101 Media and Society</td>
<td></td>
</tr>
<tr>
<td>DCS 150 Introduction to Film and History</td>
<td></td>
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<tr>
<td>DCS 201 History of Documentary Film</td>
<td></td>
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<tr>
<td>DCS 208 Women in Film</td>
<td></td>
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<tr>
<td>DCS 309 American Independent Film</td>
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</tr>
<tr>
<td>DCS 390 Life, Liberty, and the Pursuit of Happiness: Representing American Identity on Film</td>
<td></td>
</tr>
<tr>
<td>DCS 391 Digital Storytelling</td>
<td></td>
</tr>
<tr>
<td>Advanced Media Studies Elective</td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
</tr>
<tr>
<td>DCS 250 Community and Service</td>
<td></td>
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<tr>
<td>DCS 401 Ethnographic Filmmaking/SL</td>
<td></td>
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<tr>
<td>DCS 450 Media and Public Service</td>
<td></td>
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<tr>
<td>DCS 460 Independent Media Studies</td>
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<tr>
<td>DCS 470 Internship in Media Studies</td>
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<tr>
<td>DCS 490 Special Topics in Media</td>
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<tr>
<td>DCS 499 Special Topics in Media Studies</td>
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<tr>
<td>Elective</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 123 Comparative Cultures through Films</td>
<td></td>
</tr>
<tr>
<td>ANTH 366 Urban Anthropology</td>
<td></td>
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<tr>
<td>ANTH 415 Ethnographic Research Methods</td>
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<tr>
<td>ARS 103 Digital Imaging &amp; Design Foundations</td>
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<tr>
<td>ARS 104 Four-Dimensional Design Foundations</td>
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<tr>
<td>ARS 250 Experiential Graphic Design</td>
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<tr>
<td>ARS 260 Experiential New Media</td>
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<tr>
<td>ARS 280 Creativity and Imagination</td>
<td></td>
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<tr>
<td>ARS 361 Survey of Animation</td>
<td></td>
</tr>
<tr>
<td>ARS 360 New Media - Special Topics 1</td>
<td></td>
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<tr>
<td>ARS 362 Fabrication Laboratory</td>
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<tr>
<td>ARS 454 Multimedia Productions</td>
<td></td>
</tr>
<tr>
<td>EH 210 Interpreting Film</td>
<td></td>
</tr>
<tr>
<td>EH 431 Special Topics in Film</td>
<td></td>
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<tr>
<td>GEO 109 Intro to Urban Geography</td>
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<tr>
<td>HY 207 The American Film</td>
<td></td>
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<tr>
<td>HY 227 Technology and Society</td>
<td></td>
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<tr>
<td>HY 305 Popular Culture in American History</td>
<td></td>
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<tr>
<td>HY 431 American Film and Violent Society</td>
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<tr>
<td>PSC 270 Law and Film</td>
<td></td>
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<tr>
<td>PSC 370 Politics and the Media</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Natural Science

Interdisciplinary Major
The purpose of the Natural Science degree is to enable students to receive a general science education based on a course of study which is broader, but less in-depth in a single area, than a typical science major in the College of Arts and Sciences.

Requirements are successful completion of 30 semester hours approved and offered by one science department (designated the major) and 27 semester hours approved and offered by a second science department (designated the minor). The five science departments are found within the College of Arts and Sciences and include Biology, Chemistry, Computer Science, Mathematics, and Physics. At least 9 semester hours of the major must be at the 400 level or above.

Because departments within the college offer a variety of courses for diverse purposes, not every course listed in this catalog can be counted toward the natural science degree. Students must obtain approval of a plan of study leading toward this degree from the department chair of both the major and minor departments. It is advisable to do this as soon as possible to avoid taking courses that might not be approved toward the degree.

In addition to the number of hours, there is a requirement of at least a C average in courses counted toward the major and also in courses counted toward the minor. At least one-third of the hours in both the major and minor must be completed at UAB, and at least a C average must be maintained in these courses. Individual departments may be contacted for specific listings of courses required or recommended for the major or minor in that department for the natural science degree, or for information about particularly effective major/minor pairings.

Students interested in pursuing a major in Natural Science should email Dr. Catherine Danielou, Senior Associate Dean for Undergraduate Academic Affairs in the College of Arts and Sciences, and will be referred to an appropriate academic adviser (danielou@uab.edu), or call (205) 934-5643.

Neuroscience

Interdisciplinary Major
The UAB Undergraduate Neuroscience Program (UNP) (http://www.uab.edu/cas/neuroscience) is an interdisciplinary major between the Department of Neurobiology in the School of Medicine and the Department of Psychology in the College of Arts and Sciences.

Neuroscience is the study of the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions. Neuroscience also seeks to understand the molecular basis of nervous system disorders and diseases. Multidisciplinary in nature, the field of Neuroscience spans the anatomy, evolution, development, genetics, biochemistry, cell biology, physiology, electrophysiology, pharmacology, circuitry and pathology of the nervous system. Therefore, neuroscience integrates biology, chemistry, physics, mathematics, psychology, and computer science. It is one of the most rapidly advancing fields in biomedical research.
The goals of the UNP are to prepare and advance UAB undergraduates to careers in research and health-related sciences in highly competitive programs and to enable UAB graduates to become accomplished research scientists, clinicians and health-care professionals who will be ideally equipped for future study of the nervous system and treatment and discovery of cures for neurological, psychiatric and neurodevelopmental disorders and injury.

The UNP and its Training Faculty accomplish these goals by four complementary mechanisms. First, students are provided with a solid academic and intellectual foundation through coursework in biology, chemistry, mathematics, physics, psychology and neuroscience (http://www.uab.edu/cas/neuroscience/academic-programs/the-major). Second, students conduct original hands-on laboratory research under the direction of faculty mentors to learn the state-of-the-art experimental approaches and methods in Neuroscience research. Third, students are mentored in the development of skills in scientific method, experimental analysis, and effective oral and written communication (http://www.uab.edu/cas/neuroscience/academic-programs/research). Students are expected to become active “colleagues” in faculty laboratories, which should result in publications in scientific journals and presentations at professional meetings. Fourth, students are provided with one-on-one academic and career counseling to identify professional programs most suited to their interests, and strategies to be competitive applicants to these programs.

Students earning the B.S. in Neuroscience at UAB are ideally suited for admission into the nation’s most prestigious graduate programs, and medical and professional schools.

Admissions

The UNP is designed for graduating high school seniors and college freshmen or sophomores with a strong academic record and the motivation to pursue a career in biomedical science. Please note carefully the following items.

High school students with an ACT score of 28 or higher and a GPA of 3.5 or higher (the UAB Honors College admissions criteria) will be considered for immediate acceptance into the Neuroscience major. Others may choose to attend UAB before applying in the freshman or sophomore year. Current UAB students whose high school credentials meet the minimum requirements and/or whose academic performance in freshman science courses is excellent may apply at any time (http://www.uab.edu/cas/neuroscience/academic-programs/apply). Please contact the Program Coordinator, Dr. Cristin Gavin (cfgavin@uab.edu), if you would like to be considered for admission to the Program. Program Leadership is available to meet with high school students and their parents, or with current UAB students, to discuss the Program.

Advising and Information

Dr. Scott Wilson
Program Director, Undergraduate Neuroscience
Associate Professor of Neurobiology
(205) 975-5573
livy01@uab.edu

Dr. Anne Theibert
Co-Director Undergraduate Neuroscience
Professor of Neurobiology
(205) 934-7278
theibert@uab.edu (theibert@nrc.uab.edu)

Dr. Rajesh Kana
Co-Director, Undergraduate Neuroscience
Associate Professor of Psychology
(205) 934-3171
rkana@uab.edu (theibert@nrc.uab.edu)

Dr. David Knight
Co-Director, Undergraduate Neuroscience
Associate Professor of Psychology
(205) 996-6344
knightdc@uab.edu (theibert@nrc.uab.edu)

Dr. Cristin Gavin
Instructor, Undergraduate Neuroscience
Research Associate, Neurobiology
(205) 934-6433
cfgavin@uab.edu (theibert@nrc.uab.edu)

Dr. Garrett Kaas
Instructor, Undergraduate Neuroscience
Postdoctoral Fellow, Neurobiology
(205) 975-3082
gkaas@uab.edu (cfgavin@uab.edu)

Major Requirements for Neuroscience

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biology</strong></td>
<td></td>
</tr>
<tr>
<td>BY 123</td>
<td>4</td>
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<tr>
<td>BY 124</td>
<td>4</td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>CH 115</td>
<td>4</td>
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<tr>
<td>&amp; CH 116</td>
<td></td>
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<tr>
<td>&amp; General Chemistry I Laboratory</td>
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<tr>
<td>CH 117</td>
<td>4</td>
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<tr>
<td>&amp; CH 118</td>
<td></td>
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<tr>
<td>&amp; General Chemistry II Laboratory</td>
<td></td>
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<tr>
<td>CH 235</td>
<td>4</td>
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<tr>
<td>&amp; CH 236</td>
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<tr>
<td>&amp; Organic Chemistry I Laboratory</td>
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<tr>
<td>CH 237</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 238</td>
<td></td>
</tr>
<tr>
<td>&amp; Organic Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 460</td>
<td>3</td>
</tr>
<tr>
<td><strong>Psychology and Neurobiology</strong></td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>3</td>
</tr>
<tr>
<td>or PY 201</td>
<td></td>
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<tr>
<td>&amp; Honors Introduction to Psychology</td>
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<tr>
<td>PY 253</td>
<td>3</td>
</tr>
<tr>
<td>&amp; Brain, Mind and Behavior</td>
<td></td>
</tr>
<tr>
<td>NBL/PY 355</td>
<td>3</td>
</tr>
<tr>
<td>&amp; Cellular &amp; Molecular Neuroscience</td>
<td></td>
</tr>
<tr>
<td>NBL/PY 356</td>
<td>3</td>
</tr>
<tr>
<td>&amp; From Systems to Cognitive Neuroscience</td>
<td></td>
</tr>
<tr>
<td><strong>Neuroscience Colloquium</strong></td>
<td></td>
</tr>
<tr>
<td>This course is to be taken at least twice.</td>
<td>2</td>
</tr>
<tr>
<td>NBL/PY 401</td>
<td></td>
</tr>
<tr>
<td>&amp; Colloquium in Basic, Cognitive and Clinical Neuroscience</td>
<td></td>
</tr>
</tbody>
</table>

Advanced Neuroscience Courses

Select two courses from the following

<table>
<thead>
<tr>
<th>Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NBL 410</td>
<td>Special Topics in Neuroscience</td>
</tr>
<tr>
<td>NBL 433</td>
<td>Diseases of the Nervous System</td>
</tr>
<tr>
<td>NBL 425</td>
<td>Methods in Human Neuroimaging</td>
</tr>
<tr>
<td>PY 431</td>
<td>The Dynamics of Pain</td>
</tr>
<tr>
<td>NBL 434</td>
<td>Mechanisms of Memory</td>
</tr>
<tr>
<td>PY 463</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>PY 468</td>
<td>Cognitive Neuroimaging</td>
</tr>
<tr>
<td>PY 472</td>
<td>Social Psychophysiology</td>
</tr>
<tr>
<td>VIS 456</td>
<td>Visual Neuroscience</td>
</tr>
</tbody>
</table>
Physics
Select one group PH 201 & 202 or PH 221 & 222
PH 201 College Physics I & 201L and College Physics Laboratory I
PH 202 College Physics II
PH 221 General Physics I & 221L and General Physics Laboratory I
PH 222 General Physics II & 222L and General Physics Laboratory II

General
MA 125 Calculus I 4
PHL 116 Bioethics 3

Statistics
Select one of the following: 1
NBL 210 Scientific Reasoning and Medical Research Design
PUH 250 Biostatistics
STH 301 Statistics and Design Overview
PY 216 Elementary Statistical Methods & 216L and Elementary Statistical Methods Laboratory
MA 180 Introduction to Statistics

Research
Students may choose to complete a laboratory- or literature-based research thesis. 6 total research thesis.
For the research-based thesis students complete:
NBL/PY 398 Rescg Prac in Neurobiology-RES 2
For the literature-based thesis students complete:
NBL 390 Neurobiology Research Laboratory
NBL 399 Senior Seminar in Neuroscience

Total Hours 65-66

1 Medical school requires 6 hours of college math. AP Calculus can be substituted for 3 credit hours, but pre-medical students must take another math course at UAB. MA 180 will satisfy the requirement; therefore, students planning to attend medical school should take MA 180.

2 Research credit hours (NBL/PY 398) are distributed across multiple semesters. Students should register for NBL 398 if their research mentor resides in the School of Medicine, and PY 398 if their mentor resides in the College of Arts and Sciences. NBL 398 and PY 398 credit can be applied toward completion of the Science and Technology Honors Program.

Neuroscience majors in the laboratory-based research track should be working under the direction of a faculty mentor no later than the first semester of their junior year. However, students may identify a mentor and begin conducting research following completion of their Laboratory Research Orientation in their freshman year.

Recommended but not Required:
NBL 225 No Self Control: Motivation, Reward and Addiction (3 credit hours)
NBL 245 The Neurobiology of Learning and Memory (3 credit hours)
VIS 427 - Dauphin Island Sea Lab (DISL) (3 credit hours, May Miniterm)
BY 330 Cell Biology (3 credit hours)
BY 210 Genetics (3 credit hours)

PY 305 Medical Psychology (3 credit hours)
PY 335 Motivation and Emotion (3 credit hours)
PY 372 Social Psychology (3 credit hours)
Premedical students should take SOC 100.

Academic Performance Requirement: Neuroscience majors must maintain an overall GPA of 3.2 to remain in the program. Any students falling below the academic requirement will be given 1 semester to raise their GPA and a subsequent semester of academic probation with the program.

Laboratory-Based Research Options

Freshman
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
MA 125 | 4 | BY 123 | 4
CH 115 | 4 | CH 117 | 4
& CH 116 | & CH 118 | 
PY 101 or 201 | 3 | PHL 116 | 3
EH 101 | 3 | EH 102 | 3

NBL 210 3 | 3 | 

Sophomore
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
CH 235 | 4 | CH 237 | 4
& CH 236 | & CH 238 | 
BY 124 | 4 | NBL 355 | 3
PY 253 or NBL 230 | 3 | NBL 401 | 1
Core Area II Fine Arts | 3 Core Area II Literature | 3

NBL 398 or PY 398 4 | 1-6 | 

14 | 12-17

Junior
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
CH 460 | 3 | PH 202 or 222 | 3
NBL 356 | 3 | NBL Upper level course | 3
PH 201 or 221 | 4 | NBL 401 | 1
Core Area IV History | 3 Final History/Lit Series | 3

13 | 11

Senior
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
NBL Upper level course | 3 Area IV Soc/Behav Science | 3
Area II/Area IV Elective | 3 | 

6 | 3

Total credit hours: 90-95

1 Often use AP credit for EH 101, Can take EH 102 instead
2 Sometimes taken summer after freshman year
3 or Stats equivalent
4 Begin lab research

Literature-Based Research Option

Freshman
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
MA 125 | 4 | BY 123 | 4
Minor Requirements for Neuroscience

Requirements

PY 253 Brain, Mind and Behavior 3
NBL 355 Cellular & Molecular Neuroscience 3
NBL 356 From Systems to Cognitive Neuroscience 3
or PY 353 Behavioral Neuroscience

Required: 3 electives at the 200 level or above with one elective at the 400 level or above

NBL 210 Scientific Reasoning and Medical Research Design
NBL 225 No Self Control: Motivation, Reward and Addiction
NBL 245 The Neurobiology of Learning and Memory
NBL 410 Special Topics in Neuroscience
NBL 425 Methods in Human Neuroimaging
NBL 433 Diseases of the Nervous System
NBL 434 Mechanisms of Memory
PY 201 Honors Introduction to Psychology
PY 335 Motivation and Emotion
PY 354 Autism: Brain and Cognition
PY 363 Cognitive Psychology
PY 380 Perception
PY 390 Animal Behavior
PY 405 Biofeedback, Meditation, and Self-Regulation
PY 420 Special Topics in Psychology

PY 431 The Dynamics of Pain
PY 453 Advanced Behavioral Neuroscience
PY 455 Psychology of Eating Disorders and Obesity
PY 463 Cognitive Neuroscience
PY 468 Cognitive Neuroimaging
VIS 429 Intro to Neurobiology
VIS 456 Visual Neuroscience

Total Hours 18

Peace, Justice and Ecology

Interdisciplinary Minor

Directors: Loretta Cormier, Douglas Fry, and Chris Kyle (Anthropology)

Faculty: Baker (Social Work), Becker (Environmental Health Sciences), Biga (Sociology), Copes (Justice Sciences), Dickinson (Environmental Health Sciences), Ertas (Government), Keitt (History), King (History), Petri (Human Studies)

The Peace, Justice, and Ecology minor, housed in the College of Arts and Sciences, is an interdisciplinary program for students seeking a broad learning experience in human-ecological interactions, bio-cultural diversity, and strategies to foster social justice, peace, and environmental sustainability from a holistic perspective. The Peace, Justice, and Ecology studies minor offers students the opportunity to examine themes of ecological adaptation and sustainability as well as environmental health and human rights in local, cross-cultural, and global contexts, and to apply scientific, philosophical, and ethical reasoning to real-world problems.

Students interested in Peace Studies and this particular minor can contact Dr. Douglas Fry, Chair of the Department of Anthropology (Heritage Hall 315).

Grade Requirement

A C or better is required in all courses applied to the minor.

Minor Requirements for Peace, Justice, and Ecology

Requirements

ANTH 104 Introduction to Peace Studies 3

In addition to ANTH 104, any one of the following courses is required: 3

ANTH 330 Nationalism Ethnicity and Violence
ANTH 351 Anthropology of Human Rights
ANTH 408 Conflict Resolution in Cross-Cultural Perspective
ANTH 412 Peaceful Societies and Peace Systems
ANTH 418 The Power of Nonviolence
ANTH 421 Technological Monitoring of Human Rights and Conflicts
ANTH 447 Advanced Peace Studies
ANTH 483 Intern in Peace, Justice and Ecology
ANTH 487 Special Problems in Peace Research
ANTH 488 Special Problems in Human Rights

Peace, Justice & Ecology Electives

Select any four of the following: 12

ANTH 101 Introduction to Cultural Anthropology
ANTH 106 Introductory Archaeology
ANTH 299 Contemporary Global Issues
ANTH 330 Nationalism Ethnicity and Violence

Total Credit Hours: 89

1. Often use AP credit for EH 101, Can take EH 102 instead
2. Sometimes taken summer after freshman year
3. or Stats equivalent
Women's and Gender Studies

Interdisciplinary Minor

Director: Lisa Sharlach (Government)

Faculty: Baker (Social Work), M. Bellis (English), Chapman (English), Cormier (Anthropology), Dallow (Art History), Doss (History), Drentea (Sociology), Forman (Media Studies), Gunther-Canada (Government), King (History), Koskinen (Theatre), Lariscy (English), Morgan (African American Studies & Justice Sciences), Murray (History), Sharlach (Government)

Women's and Gender Studies, formerly Women's Studies, is an interdisciplinary minor within the College of Arts and Sciences. Courses address sexuality and the gendered dynamics of history, politics, literature and the arts, philosophy and theology, health, and socio-cultural practices. The minor may be of interest to students pursuing careers in government, the justice system, education, social services, economic development and the health professions.

Minor Requirements for Women's and Gender Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Women's and Gender Studies courses</td>
<td>18</td>
</tr>
</tbody>
</table>

WS 100 Introduction to Women's and Gender Studies 1 3
WS 400 Theory and Practice of Women's and Gender Studies: Senior Seminar 3

Women's and Gender Studies Electives 2

Select four of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 357</td>
<td>Anthropology of Gender</td>
</tr>
<tr>
<td>ARH 483</td>
<td>Special Topics: Gender and the Visual Arts</td>
</tr>
<tr>
<td>EH 423</td>
<td>African Women's Literature</td>
</tr>
<tr>
<td>EH 444</td>
<td>Women's Literature and Theory</td>
</tr>
<tr>
<td>EH 460</td>
<td>American Women Writers Before 1900</td>
</tr>
<tr>
<td>EH 467</td>
<td>Black Women Writers</td>
</tr>
<tr>
<td>HY 208</td>
<td>Women in Film</td>
</tr>
<tr>
<td>HY 303</td>
<td>Women in American History</td>
</tr>
<tr>
<td>HY 342</td>
<td>Sex &amp; Latin American Society</td>
</tr>
<tr>
<td>HY 423</td>
<td>Southern Women: Image and Reality</td>
</tr>
<tr>
<td>HY 445</td>
<td>History of Women Latin America</td>
</tr>
<tr>
<td>JS 442</td>
<td>Race, Crime, Gender and Social Policy</td>
</tr>
<tr>
<td>JS 443</td>
<td>Women and the Criminal Justice System</td>
</tr>
<tr>
<td>PSC 322</td>
<td>Women and Politics</td>
</tr>
<tr>
<td>PSC 316</td>
<td>Human Rights</td>
</tr>
<tr>
<td>PSC 422</td>
<td>Women in Politics</td>
</tr>
<tr>
<td>PY 108</td>
<td>Human Sexuality</td>
</tr>
<tr>
<td>PY 420</td>
<td>Special Topics in Psychology</td>
</tr>
<tr>
<td>SOC 135</td>
<td>Human Sexuality</td>
</tr>
<tr>
<td>SOC 220</td>
<td>Sociology of Sex and Gender</td>
</tr>
<tr>
<td>SOC 335</td>
<td>Human Sexuality: A Comparative Approach</td>
</tr>
<tr>
<td>SOC 482</td>
<td>Gender and Health</td>
</tr>
<tr>
<td>SOC 490/WS 480</td>
<td>Independent Study: Sociology</td>
</tr>
<tr>
<td>SOC 491</td>
<td>Independent Study and Special Courses in Sociology</td>
</tr>
<tr>
<td>SW 207</td>
<td>Racism, Sexism and Other Isms</td>
</tr>
<tr>
<td>WS 280</td>
<td>Special Topics in Women's and Gender Studies</td>
</tr>
<tr>
<td>WS 380</td>
<td>Special Topics: Women's and Gender Studies</td>
</tr>
<tr>
<td>WS 480</td>
<td>Special Topics in Women's and Gender Studies</td>
</tr>
</tbody>
</table>

Total Hours: 18

1 Note: WS 100 may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.
2 Or seek approval for those not listed.

The following is not a comprehensive list of courses; other courses can be considered for credit in the Women's and Gender Studies Program. For full descriptions of courses other than Women's and Gender Studies, refer to the appropriate department's course listings in this catalog. Note: Special topics courses with the same numerical designation may be repeated for credit. However, courses with the same content may not be repeated.

Grade & Residency Requirement

A C or better is required in all courses applied to the minor. At least half of the minor must be completed at UAB.

Department of Anthropology

Chair: Douglas P. Fry

The Anthropology Department offers the Bachelor of Arts degree and the Master of Arts degree. In addition to the Anthropology Major, the
The University of Alabama at Birmingham

The department offers two minors, one in Anthropology and the other in Peace, Justice, and Ecology. Anthropology is a social science discipline committed to the comparative and historical study of humankind. Anthropology is the broadest in scope and the most methodologically diverse of the social sciences.

Our Departmental mission is to advance knowledge of anthropology through scientific and humanistic research, high quality teaching, professional publications, and community outreach. The faculty conducts research, teaches, and trains in the four subfields of anthropology, cultural anthropology, linguistics, archaeology and biological anthropology as well as in the applied areas of peace and conflict studies, ecology, social justice, and human rights. Current faculty do research and teach in areas of satellite or space archaeology, Egyptology, medical anthropology, historical ecology, paleo-ecology, war and political violence, peace studies, human rights, and social justice. The research and teaching focus on peace, human rights, justice, and ecology is being expanded. For instance, Anthropology hosts the Peaceful Societies website and cooperates with the UAB Institute for Human Rights (HRI).

Students interested in careers in the fields of law, teaching, public service, international affairs, business, journalism, and a variety of other areas involving the social sciences and humanities will find the anthropology major beneficial and rewarding. Anthropology provides a solid foundation for the following careers: multicultural training, cross-cultural research, international health, forensic science, cultural resource management, national park service, teaching, international business, language interpreters, primatology, global issues, environmental conservation, tribal anthropology, and museum curation.

An undergraduate student has latitude in selecting a personalized program of study in the major that satisfies individual interests and maintains the holistic integrity of an undergraduate degree in general anthropology.

Anthropology Graduate Program

For information, contact the Department Chair or the Graduate Program Director.

Major Requirements for Anthropology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Anthropology Courses</td>
<td></td>
</tr>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102 Introduction to Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 106 Introductory Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 120 Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Anthropology</td>
<td></td>
</tr>
<tr>
<td>Select two of the following Capstones:</td>
<td>6</td>
</tr>
<tr>
<td>ANTH 450 Advanced Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 451 Advanced Archaeological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 452 Advanced Linguistic Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 453 Advanced Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>Select 18 credit hours in Anthropology (ANTH)</td>
<td>18</td>
</tr>
<tr>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

1 Completing ANTH 101, ANTH 106 and ANTH 120 will satisfy six hours of Core Curriculum Area IV.

2 Courses not listed above, including 3 hours at the 400 level and 6 hours at the 300-level or above.

Grade Requirement

A grade of C or better is required in all anthropology courses.

Additional Requirements

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Anthropology

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3 ANTH 106</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>3 ANTH 120</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: History&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3 Core Curriculum Area II: Humanities</td>
<td>3</td>
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</tr>
<tr>
<td>Core Curriculum Area II: Fine Arts&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 Core Curriculum Area IV: History</td>
<td>3</td>
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</tr>
<tr>
<td>15</td>
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<table>
<thead>
<tr>
<th>Sophomore</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>3 Core Curriculum Area II: Humanities</td>
<td>3</td>
<td></td>
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<tr>
<td>Core Curriculum Area II: Literature&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3 Core Curriculum Area III: Natural Science with Laboratory</td>
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<tr>
<td>Core Curriculum Area III: Natural Science with Laboratory</td>
<td>4 Anthropology (ANTH) Elective</td>
<td>3</td>
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</tr>
<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 General Elective</td>
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</tr>
<tr>
<td>16</td>
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<table>
<thead>
<tr>
<th>Junior</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Anthropology</td>
<td>Advanced Anthropology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course&lt;sup&gt;4&lt;/sup&gt;</td>
<td>Course&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>3 Anthropology (ANTH) Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>6 Minor</td>
<td>3</td>
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</tr>
<tr>
<td>General Elective</td>
<td>6 General Elective</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>15</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (ANTH) Elective (400 level)</td>
<td>3 Anthropology (ANTH) Elective (300-400 level)</td>
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<td></td>
</tr>
<tr>
<td>Anthropology (ANTH) Elective</td>
<td>3 Minor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>3 General Elective</td>
<td>7-9</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>6</td>
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<tr>
<td>15</td>
<td>13-15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total credit hours: 114-116
Select one: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.

Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.

Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.

Select One: ANTH 450, ANTH 451, ANTH 452, ANTH 453

Minor Requirements for Anthropology

Requirements | Hours
--- | ---
Introductory Anthropology Courses | 9
ANTH 101 | Introduction to Cultural Anthropology
ANTH 102 | Introduction to Biological Anthropology
ANTH 106 | Introductory Archaeology
ANTH 120 | Language and Culture

Advanced Anthropology Courses | 3
ANTH 450 | Advanced Cultural Anthropology
ANTH 451 | Advanced Archaeological Anthropology
ANTH 452 | Advanced Linguistic Anthropology
ANTH 453 | Advanced Biological Anthropology

Anthropology Electives | 6
Select 6 credit hours from Anthropology (ANTH) courses

Total Hours | 18

A grade of C or better is required in all courses for the minor.

ANTH 101, ANTH 106 and ANTH 120 may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.

Minor Requirements for Peace, Justice, and Ecology

Requirements | Hours
--- | ---
ANTH 104 | Introduction to Peace Studies

In addition to ANTH 104, any one of the the following courses is required: 3
ANTH 330 | Nationalism Ethnicity and Violence
ANTH 351 | Anthropology of Human Rights
ANTH 408 | Conflict Resolution in Cross-Cultural Perspective
ANTH 412 | Peaceful Societies and Peace Systems
ANTH 418 | The Power of Nonviolence
ANTH 421 | Technological Monitoring of Human Rights and Conflicts
ANTH 447 | Advanced Peace Studies
ANTH 483 | Intern in Peace, Justice and Ecology
ANTH 487 | Special Problems in Peace Research
ANTH 488 | Special Problems in Human Rights

Peace, Justice & Ecology Electives | 12
Select any four of the following:
ANTH 101 | Introduction to Cultural Anthropology
ANTH 106 | Introductory Archaeology
ANTH 299 | Contemporary Global Issues
ANTH 330 | Nationalism Ethnicity and Violence
ANTH 351 | Anthropology of Human Rights
ANTH 357 | Anthropology of Gender
ANTH 404 | Human Rights, Peace, and Justice
ANTH 408 | Conflict Resolution in Cross-Cultural Perspective

Total Hours | 18

A grade of C or better is required in all courses applied to the minor. At least half of the minor must be completed at UAB.

Honors Program in Anthropology

Purpose

The Anthropology Honors Program is designed to prepare students for advanced work at the graduate or professional level.

Eligibility

All regularly admitted students with a declared major in anthropology are eligible to enter the program, although continuing participation requires maintenance of an overall 3.0 GPA and a 3.25 GPA in anthropology.

Thirty-three semester hours in anthropology are required plus the completion of one of three statistics/foreign language options listed below. Students will be required to complete a minor.

Requirements | Hours
--- | ---
Anthropology Courses | 3
ANTH 101 | Introduction to Cultural Anthropology
ANTH 102 | Introduction to Biological Anthropology
ANTH 106 | Introductory Archaeology
ANTH 120 | Language and Culture

Advanced Anthropology Electives | 3
Select two of the following:
ANTH 450 | Advanced Cultural Anthropology
ANTH 451 | Advanced Archaeological Anthropology

Options Selection

Requirements | Hours
--- | ---
Option 1 | 8
SOC 410 Social Statistics 1 | 4
CS 103 Introduction to Computation | 4
Total Hours | 8

Requirements | Hours
--- | ---
Option 2 | 12
SOC 410 Social Statistics 1 | 4
Two courses in a foreign language (or demonstrated proficiency at the 102 level) | 8
Total Hours | 12

Requirements | Hours
--- | ---
Option 3 | 9-11
Three courses in a foreign language, including one at the 200 level or above (or demonstrated proficiency at the 200 level) | 9-11
Total Hours | 9-11

1 STH students can substitute STH 301 for one of the Statistics courses

Benefits

Students will benefit from the Anthropology Department Honors Program by acquiring additional research skills to successfully enter and compete in internationally-oriented graduate and professional programs. Students who complete the program will graduate “With Honors in Anthropology.”

Contact

For additional information and/or admission to the Anthropology Honors Program, contact the Department Chairperson, 322 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-3508.

Department of Art & Art History

Chair: Lauren Lake

The Department of Art and Art History grants the following undergraduate degrees: a Bachelor of Arts and a Bachelor of Fine Arts. The B.A. has two areas of concentration: Art Studio and Art History. The department awards a Master of Arts in Art History in conjunction with the University of Alabama at Tuscaloosa. The M.A. in Art Education degree is granted through the School of Education. UAB’s Department of Art and Art History is accredited by the National Association of Schools of Art and Design. Nationally and internationally active scholars and artists who promote creative inquiry, scholarship and innovation are actively teaching in their classrooms and studios.

Art History:

Emphasizing skills in critical thinking and visual literacy, students study a breadth of art history across time periods and culture preparing students for a wide range of careers and graduate study.

The Master of Arts degree in Art History prepares students for further academic study at the doctoral level or for professional careers in teaching, museums, galleries, and other arts-related fields.

Studio Art:

Studio art courses enable students to emphasize the skills and concepts of communicating visually, critically and conceptually. Students are encouraged to create a trajectory and drive for making art through experiencing the disciplines of the fine arts and design.

Students gain hands-on experience as they learn to formulate an understanding of the principles and elements of artistic practice. Students execute artworks by choosing media and technologies that support their ideas. They learn to develop sound research and production values, work in teams, analyze artwork, create professional portfolios and present their work orally and in writing.

Major in Art with Art History Concentration (p. 157), BA

Major in Art with Art Studio Concentration (p. 159), BA

Bachelor of Fine Art - Major in Art (p. 160), BFA

Major in Art with Art History Concentration, BA

The B.A. degree in Art is offered for students who seek a liberal arts education with a concentration in art history.

Requirements for a Major in Art with Art History Concentration

Must earn a C or better in all coursework

Requirements | Hours
--- | ---
Freshman Year Experience 1 | 1
College of Arts and Sciences Freshman Year Experience course | 1
Art Survey | 3
ARH 203 Ancient and Medieval Art | 3
ARH 204 Early Modern-Contemporary Art | 3
ARH 206 Survey of Asian Art | 3
Art Studio Requirement | 6
Select two of the following:
ARS 100 Drawing Foundations | 6
ARS 101 Two-Dimensional Design Foundations | 6
ARS 102 Three-Dimensional Design Foundations | 6
ARS 103 Digital Imaging & Design Foundations | 6
ARS 104 Four-Dimensional Design Foundations | 6
ARS 110 Visual Literacy Foundations | 6
ARS 280 Creativity and Imagination | 6
### Asian/Non-Western Art
Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 205</td>
<td>African/Native American/Oceanic Art</td>
</tr>
<tr>
<td>ARH 405</td>
<td>African Art</td>
</tr>
<tr>
<td>ARH 470</td>
<td>Tomb Art in East Asia</td>
</tr>
<tr>
<td>ARH 471</td>
<td>Topics in Asian Cinema</td>
</tr>
<tr>
<td>ARH 472</td>
<td>Buddhist &amp; Hindu Art in India to 1200</td>
</tr>
<tr>
<td>ARH 473</td>
<td>Japanese Prints/Printmakers</td>
</tr>
<tr>
<td>ARH 474</td>
<td>Landscape and Image in East Asia</td>
</tr>
<tr>
<td>ARH 475</td>
<td>Japanese Art</td>
</tr>
<tr>
<td>ARH 477</td>
<td>Piety and Power: Art in India after 1200</td>
</tr>
<tr>
<td>ARH 478</td>
<td>Buddhist Arts of East Asia</td>
</tr>
<tr>
<td>ARH 479</td>
<td>Study Abroad: Art &amp; Culture of South Asia</td>
</tr>
<tr>
<td>ARH 486</td>
<td>Special Topics: South Asia</td>
</tr>
<tr>
<td>ARH 488</td>
<td>Special Topics: East Asian Art</td>
</tr>
<tr>
<td>ARH 493</td>
<td>Seminar: South Asian Art</td>
</tr>
<tr>
<td>ARH 494</td>
<td>Seminar: East Asian Art</td>
</tr>
</tbody>
</table>

### Early Modern
Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ARH 421</td>
<td>Italian Renaissance Art</td>
</tr>
<tr>
<td>ARH 422</td>
<td>The Birth of Painting: Portable Pictures Across Renaissance Europe</td>
</tr>
<tr>
<td>ARH 423</td>
<td>Study Abroad: European Art</td>
</tr>
<tr>
<td>ARH 424</td>
<td>Northern Renaissance Art</td>
</tr>
<tr>
<td>ARH 430</td>
<td>Eighteenth-Century Art in Europe</td>
</tr>
<tr>
<td>ARH 431</td>
<td>Seventeenth-Century Painting</td>
</tr>
<tr>
<td>ARH 435</td>
<td>Arts of Power in Early Modern Europe</td>
</tr>
<tr>
<td>ARH 441</td>
<td>19th-Century Art I: Neoclassicism and Romanticism</td>
</tr>
<tr>
<td>ARH 442</td>
<td>19th-Century Art II: Impressionism and Post-Impressionism</td>
</tr>
<tr>
<td>ARH 443</td>
<td>American Art to 1900</td>
</tr>
<tr>
<td>ARH 470</td>
<td>Tomb Art in East Asia</td>
</tr>
<tr>
<td>ARH 471</td>
<td>Topics in Asian Cinema</td>
</tr>
<tr>
<td>ARH 472</td>
<td>Buddhist &amp; Hindu Art in India to 1200</td>
</tr>
<tr>
<td>ARH 473</td>
<td>Japanese Prints/Printmakers</td>
</tr>
<tr>
<td>ARH 474</td>
<td>Landscape and Image in East Asia</td>
</tr>
<tr>
<td>ARH 475</td>
<td>Japanese Art</td>
</tr>
<tr>
<td>ARH 477</td>
<td>Piety and Power: Art in India after 1200</td>
</tr>
<tr>
<td>ARH 478</td>
<td>Buddhist Arts of East Asia</td>
</tr>
<tr>
<td>ARH 479</td>
<td>Study Abroad: Art &amp; Culture of South Asia</td>
</tr>
<tr>
<td>ARH 480</td>
<td>Art Criticism and Theory</td>
</tr>
<tr>
<td>ARH 481</td>
<td>Special Topics: Early Modern Art</td>
</tr>
<tr>
<td>ARH 483</td>
<td>Special Topics: Modern Art</td>
</tr>
<tr>
<td>ARH 485</td>
<td>Special Topics: Gender and the Visual Arts</td>
</tr>
<tr>
<td>ARH 487</td>
<td>Special Topics: Field Study</td>
</tr>
<tr>
<td>ARH 493</td>
<td>Seminar: South Asian Art</td>
</tr>
<tr>
<td>ARH 494</td>
<td>Seminar: East Asian Art</td>
</tr>
<tr>
<td>ARH 495</td>
<td>Seminar: Modern Art</td>
</tr>
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</table>

### Eighteenth and Nineteenth Century
Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARH 430</td>
<td>Eighteenth-Century Art in Europe</td>
</tr>
<tr>
<td>ARH 440</td>
<td>19th-Century Art I: Neoclassicism and Romanticism</td>
</tr>
<tr>
<td>ARH 441</td>
<td>19th-Century Art II: Impressionism and Post-Impressionism</td>
</tr>
<tr>
<td>ARH 450</td>
<td>American Art to 1900</td>
</tr>
<tr>
<td>ARH 470</td>
<td>Tomb Art in East Asia</td>
</tr>
<tr>
<td>ARH 471</td>
<td>Topics in Asian Cinema</td>
</tr>
<tr>
<td>ARH 472</td>
<td>Buddhist &amp; Hindu Art in India to 1200</td>
</tr>
<tr>
<td>ARH 473</td>
<td>Japanese Prints/Printmakers</td>
</tr>
<tr>
<td>ARH 474</td>
<td>Landscape and Image in East Asia</td>
</tr>
<tr>
<td>ARH 475</td>
<td>Japanese Art</td>
</tr>
<tr>
<td>ARH 477</td>
<td>Piety and Power: Art in India after 1200</td>
</tr>
<tr>
<td>ARH 478</td>
<td>Buddhist Arts of East Asia</td>
</tr>
<tr>
<td>ARH 479</td>
<td>Study Abroad: Art &amp; Culture of South Asia</td>
</tr>
<tr>
<td>ARH 480</td>
<td>Art Criticism and Theory</td>
</tr>
<tr>
<td>ARH 481</td>
<td>Special Topics: Early Modern Art</td>
</tr>
<tr>
<td>ARH 483</td>
<td>Special Topics: Modern Art</td>
</tr>
<tr>
<td>ARH 485</td>
<td>Special Topics: Contemporary Art</td>
</tr>
<tr>
<td>ARH 488</td>
<td>Special Topics: East Asian Art</td>
</tr>
<tr>
<td>ARH 490</td>
<td>Seminar: Art Theory</td>
</tr>
<tr>
<td>ARH 491</td>
<td>Independent Study</td>
</tr>
<tr>
<td>ARH 492</td>
<td>Museum/Gallery Internship</td>
</tr>
<tr>
<td>ARH 493</td>
<td>Seminar: South Asian Art</td>
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<tr>
<td>ARH 494</td>
<td>Seminar: East Asian Art</td>
</tr>
<tr>
<td>ARH 495</td>
<td>Seminar: Early Modern Art</td>
</tr>
<tr>
<td>ARH 496</td>
<td>Seminar: Modern Art</td>
</tr>
<tr>
<td>ARH 497</td>
<td>Seminar: Contemporary Art</td>
</tr>
</tbody>
</table>

### Twentieth Century/Contemporary
Select one of the following: 3

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>ARH 460</td>
<td>Twentieth-Century Art to 1945</td>
</tr>
<tr>
<td>ARH 461</td>
<td>Modern Design</td>
</tr>
<tr>
<td>ARH 464</td>
<td>Art Since 1945</td>
</tr>
<tr>
<td>ARH 465</td>
<td>Aspects of Contemporary Art</td>
</tr>
<tr>
<td>ARH 467</td>
<td>Modern Architecture</td>
</tr>
<tr>
<td>ARH 468</td>
<td>Race and Representation</td>
</tr>
<tr>
<td>ARH 471</td>
<td>Topics in Asian Cinema</td>
</tr>
<tr>
<td>ARH 480</td>
<td>Art Criticism and Theory</td>
</tr>
<tr>
<td>ARH 482</td>
<td>Special Topics: Modern Art</td>
</tr>
<tr>
<td>ARH 484</td>
<td>Special Topics: Contemporary Art</td>
</tr>
<tr>
<td>ARH 485</td>
<td>Special Topics: Museum Studies</td>
</tr>
<tr>
<td>ARH 487</td>
<td>Special Topics: Field Study</td>
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<td>ARH 496</td>
<td>Seminar: Modern Art</td>
</tr>
<tr>
<td>ARH 497</td>
<td>Seminar: Contemporary Art</td>
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### Art History/Art Studio Elective
Select one course from Art History (ARH) or Art Studio (ARS): 3

<table>
<thead>
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<tbody>
<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
</tr>
<tr>
<td>ARH 405</td>
<td>African Art</td>
</tr>
<tr>
<td>ARH 409</td>
<td>Egypt in the Age of the Pyramids</td>
</tr>
<tr>
<td>ARH 410</td>
<td>Imperial and Post Imperial Egypt</td>
</tr>
<tr>
<td>ARH 419</td>
<td>Arts of Death in the Middle Ages</td>
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### Art History Elective
Select three of the following: 9

<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>ARH 405</td>
<td>African Art</td>
</tr>
<tr>
<td>ARH 409</td>
<td>Egypt in the Age of the Pyramids</td>
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<td>ARH 410</td>
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<td>Northern Renaissance Art</td>
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<tr>
<td>ARH 430</td>
<td>Eighteenth-Century Art in Europe</td>
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<tr>
<td>ARH 431</td>
<td>Seventeenth-Century Painting</td>
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<td>ARH 435</td>
<td>Arts of Power in Early Modern Europe</td>
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<td>Special Topics: South Asia</td>
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<td>Special Topics: Modern Art</td>
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<td>ARH 483</td>
<td>Special Topics: Gender and the Visual Arts</td>
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<td>Special Topics: Contemporary Art</td>
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<td>Special Topics: Museum Studies</td>
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<td>Special Topics: South Asia</td>
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<td>Special Topics: Field Study</td>
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<td>Special Topics: East Asian Art</td>
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<td>ARH 490</td>
<td>Seminar: Art Theory</td>
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<td>ARH 491</td>
<td>Independent Study</td>
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<td>ARH 496</td>
<td>Seminar: Modern Art</td>
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<tr>
<td>ARH 497</td>
<td>Seminar: Contemporary Art</td>
</tr>
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</table>

### Art History/Art Studio Elective
Select one course from Art History (ARH) or Art Studio (ARS): 3

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
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<td>ARH 405</td>
<td>African Art</td>
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<td>Eighteenth-Century Art in Europe</td>
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ARH 431 Seventeenth-Century Painting
ARH 435 Arts of Power in Early Modern Europe
ARH 440 19th-Century Art I: Neoclassicism and Romanticism
ARH 441 19th-Century Art II: Impressionism and Post-Impressionism
ARH 450 American Art to 1900
ARH 460 Twentieth-Century Art to 1945
ARH 461 Modern Design
ARH 464 Art Since 1945
ARH 465 Aspects of Contemporary Art
ARH 467 Modern Architecture
ARH 468 Race and Representation
ARH 470 Tomb Art in East Asia
ARH 471 Topics in Asian Cinema
ARH 472 Buddhist & Hindu Art in India to 1200
ARH 473 Japanese Prints/Printmakers
ARH 474 Landscape and Image in East Asia
ARH 475 Japanese Art
ARH 477 Piety and Power: Art in India after 1200
ARH 478 Buddhist Arts of East Asia
ARH 479 Study Abroad: Art & Culture of South Asia
ARH 480 Art Criticism and Theory
ARH 481 Special Topics: Early Modern Art
ARH 482 Special Topics: Modern Art
ARH 483 Special Topics: Gender and the Visual Arts
ARH 484 Special Topics: Contemporary Art
ARH 485 Special Topics: Museum Studies
ARH 486 Special Topics: South Asia
ARH 487 Special Topics: Field Study
ARH 488 Special Topics: East Asian Art
ARH 490 Seminar: Art Theory
ARH 491 Independent Study
ARH 492 Museum/Gallery Internship
ARH 493 Seminar: South Asian Art
ARH 494 Seminar: East Asian Art
ARH 495 Seminar: Early Modern Art
ARH 496 Seminar: Modern Art
ARH 497 Seminar: Contemporary Art
ARS 100 Drawing Foundations
ARS 101 Two-Dimensional Design Foundations
ARS 102 Three-Dimensional Design Foundations
ARS 103 Digital Imaging & Design Foundations
ARS 104 Four-Dimensional Design Foundations
ARS 110 Visual Literacy Foundations
ARS 280 Creativity and Imagination
ARS 200 Experiential Drawing
ARS 210 Experiential Painting
ARS 220 Experiential Sculpture
ARS 230 Experiential Ceramics
ARS 240 Experiential Printmaking
ARS 250 Experiential Graphic Design
ARS 260 Experiential New Media
ARS 270 Experiential Photography
ARS 300 Drawing - Special Topics 1
ARS 301 Drawing - Special Topics 2
ARS 302 Drawing - Special Topics 3
ARS 310 Painting - Special Topics 1
ARS 311 Painting - Special Topics 2
ARS 312 Painting - Special Topics 3
ARS 320 Sculpture - Special Topics 1
ARS 321 Sculpture - Special Topics 2
ARS 322 Sculpture - Special Topics 3
ARS 330 Ceramics - Special Topics 1
ARS 331 Ceramics - Special Topics 2
ARS 332 Ceramics - Special Topics 3
ARS 340 Printmaking - Special Topics 1
ARS 341 Printmaking - Special Topics 2
ARS 342 Printmaking - Special Topics 3
ARS 350 Graphic Design - Special Topics 1
ARS 351 Graphic Design - Special Topics 2
ARS 352 Graphic Design - Special Topics 3
ARS 360 New Media - Special Topics 1
ARS 361 Survey of Animation
ARS 362 Fabrication Laboratory
ARS 370 Photography - Special Topics 1
ARS 371 Photography - Special Topics 2
ARS 372 Photography - Special Topics 3
ARS 495 Special Topics - Interdisciplinary

B.A. Capstone (taken at senior level)
ARH 489 Professionalism, Project Management and Entrepreneurship 3

Foreign Language Requirement 4
Select one of the following:
CHI 102 Introductory Chinese II
FR 102 Introductory French II
GN 102 Introductory German II
JPA 102 Introductory Japanese II

Total Hours 47

1. Freshmen must take either University 101 or another College of Arts and Sciences Freshman Year Experience Course.
2. For students accepted into honors program: ARH 499 and two courses from Art History (ARH) at the 400-level.
3. Chinese or Japanese must be approved by the art history undergraduate advisor (alternatively, students may receive equivalent placement; this option reduces the credit hours of this requirement to zero).

Major in Art with Art Studio Concentration

The B.A. degree in Art is offered for students who seek a liberal arts education with a concentration in art studio.

Requirements for a Major in Art with an Art Studio Concentration

Requirements Hours
A C or better is required in all coursework.

Freshman Year Experience 1
College of Arts and Sciences Freshman Year Experience 1

Required Art Studio
ARS 100 Drawing Foundations 3
ARS 101 Two-Dimensional Design Foundations 3
ARS 102 Three-Dimensional Design Foundations 3
ARS 103 Digital Imaging & Design Foundations 3

Major in Art with Art Studio Concentration

The B.A. degree in Art is offered for students who seek a liberal arts education with a concentration in art studio.

Requirements for a Major in Art with an Art Studio Concentration

Requirements Hours
A C or better is required in all coursework.

Freshman Year Experience 1
College of Arts and Sciences Freshman Year Experience 1

Required Art Studio
ARS 100 Drawing Foundations 3
ARS 101 Two-Dimensional Design Foundations 3
ARS 102 Three-Dimensional Design Foundations 3
ARS 103 Digital Imaging & Design Foundations 3
Select one of the following (Ancient, Medieval, Early Modern, Non-Western):

ARS 104 Four-Dimensional Design Foundations 3
ARS 110 Visual Literacy Foundations 3
ARS 280 Creativity and Imagination 3

**200-Level Art Studio**
Select one of the following: 3

ARS 200 Experiential Drawing
ARS 210 Experiential Painting
ARS 220 Experiential Sculpture
ARS 230 Experiential Ceramics
ARS 240 Experiential Printmaking
ARS 260 Experiential New Media
ARS 250 Experiential Graphic Design
ARS 270 Experiential Photography

**300-Level Art Studio**
Choose two of the following (must have 200 level prerequisite) 6

ARS 300 Drawing - Special Topics 1
ARS 301 Drawing - Special Topics 2
ARS 302 Drawing - Special Topics 3
ARS 310 Painting - Special Topics 1
ARS 311 Painting - Special Topics 2
ARS 312 Painting - Special Topics 3
ARS 320 Sculpture - Special Topics 1
ARS 321 Sculpture - Special Topics 2
ARS 322 Sculpture - Special Topics 3
ARS 330 Ceramics - Special Topics 1
ARS 331 Ceramics - Special Topics 2
ARS 332 Ceramics - Special Topics 3
ARS 340 Printmaking - Special Topics 1
ARS 341 Printmaking - Special Topics 2
ARS 342 Printmaking - Special Topics 3
ARS 350 Graphic Design - Special Topics 1
ARS 351 Graphic Design - Special Topics 2
ARS 352 Graphic Design - Special Topics 3
ARS 360 New Media - Special Topics 1
ARS 361 Survey of Animation
ARS 362 Fabrication Laboratory
ARS 370 Photography - Special Topics 1
ARS 371 Photography - Special Topics 2
ARS 372 Photography - Special Topics 3

**400 Level Requirements** 9

ARS 495 Special Topics - Interdisciplinary (repeat two times)
ARS 489 Professionalism, Project Management and Entrepreneurship

**Art History Requirements**
Select one of the following survey courses: 3

ARH 203 Ancient and Medieval Art 2
ARH 204 Early Modern-Contemporary Art 2
ARH 206 Survey of Asian Art 2

Select one of the following (Ancient, Medieval, Early Modern, Non-Western): 3

ARH 405 African Art
ARH 409 Egypt in the Age of the Pyramids
ARH 410 Imperial and Post Imperial Egypt
ARH 419 Arts of Death in the Middle Ages
ARH 421 Italian Renaissance Art

Choose one of the following (Modern and Contemporary Art): 3

ARH 422 The Birth of Painting: Portable Pictures Across Renaissance Europe
ARH 423 Study Abroad: European Art
ARH 424 Northern Renaissance Art
ARH 431 Seventeenth-Century Painting
ARH 435 Arts of Power in Early Modern Europe
ARH 470 Tomb Art in East Asia
ARH 471 Topics in Asian Cinema
ARH 472 Buddhist & Hindu Art in India to 1200
ARH 473 Japanese Prints/Printmakers
ARH 474 Landscape and Image in East Asia
ARH 477 Piety and Power: Art in India after 1200
ARH 478 Buddhist Arts of East Asia
ARH 479 Study Abroad: Art & Culture of South Asia
ARH 481 Special Topics: Early Modern Art
ARH 485 Special Topics: South Asia
ARH 486 Special Topics: East Asian Art
ARH 493 Seminar: South Asian Art
ARH 494 Seminar: East Asian Art
ARH 495 Seminar: Early Modern Art

Total Hours 49

Footnotes

1 Freshmen must take either University 101 or another College of Arts and Sciences Freshman Year Experience Course.
2 Note: ARH 203, or ARH 204, or ARH 206 will also satisfy Core Curriculum Area II.

**Major in Art with B.F.A.**

The Department of Art and Art History’s Bachelor of Fine Arts degree offers students an intensive exploration across a breadth of media and depth of discipline. Within this context, the undergraduate student prepares to be an artist or designer, begin a career in the arts, or to continue their studies in graduate school. Students gain skills and competencies including: team-based learning, technology, communication, problem solving, aesthetic judgment, interdisciplinary approaches, innovative thinking, critical analysis and professional development throughout their program of study. The BFA exhibition, a
highlight of the undergraduate career, both demonstrates and celebrates the students’ accomplishments.

Notes:
Admission to the B.F.A. program requires a portfolio review of the student’s work submitted to the B.F.A. committee of the Department of Art and Art History. Portfolios are reviewed twice a year, in the Fall and Spring semesters, following announced deadlines for application to the program. Students must receive a C or higher grade in all studio courses. Students select a member of the studio faculty to serve as their primary mentor for their BFA exhibition/capstone course which occurs each spring in the Abroms-Engel Institute for the Visual Arts.

Major Requirements for a B.F.A. -Major in Art

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>A C or better is required in all coursework.</td>
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</tr>
</tbody>
</table>

**Freshman Year Experience**

| College of Arts and Sciences Freshman Year Experience | 1 |

**Required Art Studio Courses**

| ARS 100 Drawing Foundations | 3 |
| ARS 101 Two-Dimensional Design Foundations | 3 |
| ARS 102 Three-Dimensional Design Foundations | 3 |
| ARS 103 Digital Imaging & Design Foundations | 3 |
| ARS 104 Four-Dimensional Design Foundations | 3 |
| ARS 110 Visual Literacy Foundations | 3 |
| ARS 280 Creativity and Imagination | 3 |

**200-level Art Studio Courses**

Select three of the following:

| ARS 200 Experiential Drawing | 9 |
| ARS 210 Experiential Painting | |
| ARS 220 Experiential Sculpture | |
| ARS 230 Experiential Ceramics | |
| ARS 240 Experiential Printmaking | |
| ARS 250 Experiential Graphic Design | |
| ARS 260 Experiential New Media | |
| ARS 270 Experiential Photography | |

**300/400-level Studio Course Sequences**

Select one of the following discipline sequences (must have 200 level prerequisite):

| ARS 300 Drawing - Special Topics 1 | 12 |
| ARS 301 Drawing - Special Topics 2 | |
| ARS 302 Drawing - Special Topics 3 | |
| ARS 400 Advanced Drawing | |
| ARS 310 Painting - Special Topics 1 | |
| ARS 311 Painting - Special Topics 2 | |
| ARS 312 Painting - Special Topics 3 | |
| ARS 410 Advanced Painting | |
| ARS 320 Sculpture - Special Topics 1 | |
| ARS 321 Sculpture - Special Topics 2 | |
| ARS 322 Sculpture - Special Topics 3 | |
| ARS 420 Advanced Sculpture | |
| ARS 330 Ceramics - Special Topics 1 | |

**Elective Studio Courses**

Select three of the following (must have 200 level prerequisite, no course repeat):

| ARS 300 Drawing - Special Topics 1 | 9 |
| ARS 301 Drawing - Special Topics 2 | |
| ARS 302 Drawing - Special Topics 3 | |
| ARS 310 Painting - Special Topics 1 | |
| ARS 311 Painting - Special Topics 2 | |
| ARS 312 Painting - Special Topics 3 | |
| ARS 320 Sculpture - Special Topics 1 | |
| ARS 321 Sculpture - Special Topics 2 | |
| ARS 322 Sculpture - Special Topics 3 | |
| ARS 330 Ceramics - Special Topics 1 | |
| ARS 331 Ceramics - Special Topics 2 | |
| ARS 332 Ceramics - Special Topics 3 | |
| ARS 340 Printmaking - Special Topics 1 | |
| ARS 341 Printmaking - Special Topics 2 | |
| ARS 342 Printmaking - Special Topics 3 | |
| ARS 350 Graphic Design - Special Topics 1 | |
| ARS 351 Graphic Design - Special Topics 2 | |
| ARS 352 Graphic Design - Special Topics 3 | |
| ARS 360 New Media - Special Topics 1 | |
| ARS 361 Survey of Animation | |
| ARS 362 Fabrication Laboratory | |
| ARS 490 Independent Study in Studio Art | |
| ARS 492 Studio or Gallery Internship | |
| ARS 489 Professionalism, Project Management and Entrepreneurship | |
| ARS 491 B.F.A. Exhibition | |

**400-level Requirements**

| ARS 331 Ceramics - Special Topics 2 | 15 |
| ARS 332 Ceramics - Special Topics 3 | |
| ARS 430 Advanced Ceramic Sculpture | |

**Printmaking**

| ARS 340 Printmaking - Special Topics 1 | |
| ARS 341 Printmaking - Special Topics 2 | |
| ARS 342 Printmaking - Special Topics 3 | |
| ARS 440 Advanced Printmaking | |

**Graphic Design**

| ARS 350 Graphic Design - Special Topics 1 | |
| ARS 351 Graphic Design - Special Topics 2 | |
| ARS 352 Graphic Design - Special Topics 3 | |
| ARS 450 Advanced Graphic Design | |

**New Media**

| ARS 360 New Media - Special Topics 1 | |
| ARS 361 Survey of Animation | |
| ARS 362 Fabrication Laboratory | |
| ARS 460 Advanced New Media | |

**Photography**

| ARS 370 Photography - Special Topics 1 | |
| ARS 371 Photography - Special Topics 2 | |
| ARS 372 Photography - Special Topics 3 | |
| ARS 470 Advanced Photography | |

**400-level Requirements**

| ARS 331 Ceramics - Special Topics 2 | |
| ARS 332 Ceramics - Special Topics 3 | |
| ARS 430 Advanced Ceramic Sculpture | |

**Printmaking**

| ARS 340 Printmaking - Special Topics 1 | |
| ARS 341 Printmaking - Special Topics 2 | |
| ARS 342 Printmaking - Special Topics 3 | |
| ARS 440 Advanced Printmaking | |

**Graphic Design**

| ARS 350 Graphic Design - Special Topics 1 | |
| ARS 351 Graphic Design - Special Topics 2 | |
| ARS 352 Graphic Design - Special Topics 3 | |
| ARS 450 Advanced Graphic Design | |

**New Media**

| ARS 360 New Media - Special Topics 1 | |
| ARS 361 Survey of Animation | |
| ARS 362 Fabrication Laboratory | |
| ARS 460 Advanced New Media | |

**Photography**

| ARS 370 Photography - Special Topics 1 | |
| ARS 371 Photography - Special Topics 2 | |
| ARS 372 Photography - Special Topics 3 | |
| ARS 470 Advanced Photography | |

**Elective Studio Courses**

Select three of the following (must have 200 level prerequisite, no course repeat):

| ARS 300 Drawing - Special Topics 1 | 9 |
| ARS 301 Drawing - Special Topics 2 | |
| ARS 302 Drawing - Special Topics 3 | |
| ARS 310 Painting - Special Topics 1 | |
| ARS 311 Painting - Special Topics 2 | |
| ARS 312 Painting - Special Topics 3 | |
| ARS 320 Sculpture - Special Topics 1 | |
| ARS 321 Sculpture - Special Topics 2 | |
| ARS 322 Sculpture - Special Topics 3 | |
| ARS 330 Ceramics - Special Topics 1 | |
| ARS 331 Ceramics - Special Topics 2 | |
| ARS 332 Ceramics - Special Topics 3 | |
| ARS 340 Printmaking - Special Topics 1 | |
| ARS 341 Printmaking - Special Topics 2 | |
| ARS 342 Printmaking - Special Topics 3 | |
| ARS 350 Graphic Design - Special Topics 1 | |
| ARS 351 Graphic Design - Special Topics 2 | |
| ARS 352 Graphic Design - Special Topics 3 | |
| ARS 360 New Media - Special Topics 1 | |
| ARS 361 Survey of Animation | |
| ARS 362 Fabrication Laboratory | |
| ARS 490 Independent Study in Studio Art | |
| ARS 492 Studio or Gallery Internship | |
| ARS 489 Professionalism, Project Management and Entrepreneurship | |
| ARS 491 B.F.A. Exhibition | |
**Art History Requirements**

Select two of the following surveys:  

<table>
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<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>ARH 203</td>
<td>Ancient and Medieval Art</td>
</tr>
<tr>
<td>ARH 204</td>
<td>Early Modern-Contemporary Art</td>
</tr>
<tr>
<td>ARH 206</td>
<td>Survey of Asian Art</td>
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Select one of the following (Ancient, Medieval, Early Modern, Non-Western):  

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Select one of the following (Modern and Contemporary Art):  

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<tr>
<td>ARH 483</td>
<td>Special Topics: Gender and the Visual Arts</td>
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<tr>
<td>ARH 484</td>
<td>Special Topics: Contemporary Art</td>
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<td>ARH 485</td>
<td>Special Topics: Museum Studies</td>
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<tr>
<td>ARH 487</td>
<td>Special Topics: Field Study</td>
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<td>ARH 496</td>
<td>Seminar: Modern Art</td>
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<td>ARH 497</td>
<td>Seminar: Contemporary Art</td>
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**Freshmen**

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<tr>
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<td>Ancient and Medieval Art</td>
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<tr>
<td>Core Curriculum Area IV: History</td>
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<td>Core Curriculum Area IV: Early Modern Art</td>
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**Sophomore**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
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**Junior**

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<td>ARH 405</td>
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<tr>
<td>Core Curriculum Area IV: Eighteenth &amp; Nineteenth Century</td>
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**Senior**

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<tr>
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**Proposed Program of Study for a Major in Art - Art History**

**Freshman**

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<tr>
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<td>Core Curriculum Area IV: Early Modern Art</td>
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**Sophomore**

<table>
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<th>Title</th>
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<tr>
<td>ARH 405</td>
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**Junior**

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<tr>
<td>ARH 405</td>
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**Senior**

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<th>Hours</th>
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<tr>
<td>ARH 405</td>
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**Total credit hours: 79**

*General Electives should be taken to reach 120 hour requirement*
Proposed Program of Study for a Major in Art - Art Studio

Freshman

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<tr>
<th>First Term</th>
<th>Hours</th>
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<td>MC</td>
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<tr>
<td>Community</td>
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Sophomore

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Junior

<table>
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<tr>
<td>ARS 300 (discipline focus)</td>
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<td>ARS 300 (discipline focus)</td>
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<tr>
<td>Drawing³</td>
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<td>Drawing³</td>
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<tr>
<td>Painting⁴</td>
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<td>Painting⁴</td>
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<tr>
<td>Sculpture⁵</td>
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<td>Ceramics⁶</td>
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<td>Printmaking⁷</td>
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<td>Printmaking⁷</td>
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<td>Graphic Design⁸</td>
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<td>Graphic Design⁸</td>
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</table>

Total credit hours: 79

*General Electives should be taken to reach 120 hour requirement

1  ARS 100, ARS 101, ARS 102, ARS 103, ARS 104
2  ARS 200, ARS 210, ARS 230, ARS 240, ARS 250, ARS 260, ARS 270
3  Drawing: ARS 300, ARS 301, ARS 302
4  Painting: ARS 310, ARS 311, ARS 312
5  Sculpture: ARS 320, ARS 321, ARS 322
6  Ceramics: ARS 330, ARS 331, ARS 332
7  Printmaking: ARS 340, ARS 341, ARS 342
8  Graphic Design: ARS 350, ARS 351, ARS 352
9  New Media: ARS 360, ARS 361, ARS 362
10  Photography: ARS 370, ARS 371, ARS 372
11  Art History Survey: ARS 403, ARS 404, ARS 406
12  ARS 400 level/Ancient, Medieval, Early Modern, Non-Western: ARS 405, ARS 409, ARS 410, ARS 419, ARS 421, ARS 422, ARS 423, ARS 424, ARS 431, ARS 435, ARS 470, ARS 471, ARS 472, ARS 473, ARS 474, ARS 475, ARS 477, ARS 478, ARS 479, ARS 481, ARS 486, ARS 488, ARS 493, ARS 495, ARS 496, ARS 497
13  ARS 400 level/Contemporary and Modern: ARS 430, ARS 440, ARS 441, ARS 450, ARS 460, ARS 461, ARS 464, ARS 467, ARS 465, ARS 468, ARS 480, ARS 482, ARS 483, ARS 484, ARS 485, ARS 487, ARS 496, ARS 497

Proposed Program of Study for a Bachelor of Fine Arts

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARS 110</td>
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<td>100 level ARS course¹</td>
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<td>Freshman Year Experience</td>
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<tr>
<td>History</td>
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<td>Freshman Learning Community</td>
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<td>100 level ARS course¹</td>
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</tbody>
</table>

Total credit hours: 79

*General Electives should be taken to reach 120 hour requirement

1  ARS 100, ARS 101, ARS 102, ARS 103, ARS 104
2  ARS 200, ARS 210, ARS 230, ARS 240, ARS 250, ARS 260, ARS 270
3  Drawing: ARS 300, ARS 301, ARS 302
4  Painting: ARS 310, ARS 311, ARS 312
5  Sculpture: ARS 320, ARS 321, ARS 322
6  Ceramics: ARS 330, ARS 331, ARS 332
7  Printmaking: ARS 340, ARS 341, ARS 342
8  Graphic Design: ARS 350, ARS 351, ARS 352
9  New Media: ARS 360, ARS 361, ARS 362
10  Photography: ARS 370, ARS 371, ARS 372
11  Art History Survey: ARS 403, ARS 404, ARS 406
12  ARS 400 level/Ancient, Medieval, Early Modern, Non-Western: ARS 405, ARS 409, ARS 410, ARS 419, ARS 421, ARS 422, ARS 423, ARS 424, ARS 431, ARS 435, ARS 470, ARS 471, ARS 472, ARS 473, ARS 474, ARS 475, ARS 477, ARS 478, ARS 479, ARS 481, ARS 486, ARS 488, ARS 493, ARS 494, ARS 495, ARS 496, ARS 497
13  ARS 400 level/Contemporary and Modern: ARS 430, ARS 440, ARS 441, ARS 450, ARS 460, ARS 461, ARS 464, ARS 467, ARS 465, ARS 468, ARS 480, ARS 482, ARS 483, ARS 484, ARS 485, ARS 487, ARS 496, ARS 497

*General Electives should be taken to reach 120 hour requirement

1  ARS 100, ARS 101, ARS 102, ARS 103, ARS 104
2  ARS 200, ARS 210, ARS 230, ARS 240, ARS 250, ARS 260, ARS 270
3  Drawing: ARS 300, ARS 301, ARS 302
4  Painting: ARS 310, ARS 311, ARS 312
5  Sculpture: ARS 320, ARS 321, ARS 322
6  Ceramics: ARS 330, ARS 331, ARS 332
7  Printmaking: ARS 340, ARS 341, ARS 342
8  Graphic Design: ARS 350, ARS 351, ARS 352
9  New Media: ARS 360, ARS 361, ARS 362
10  Photography: ARS 370, ARS 371, ARS 372
11  Art History Survey: ARS 403, ARS 404, ARS 406
12  ARS 400 level/Ancient, Medieval, Early Modern, Non-Western: ARS 405, ARS 409, ARS 410, ARS 419, ARS 421, ARS 422, ARS 423, ARS 424, ARS 431, ARS 435, ARS 470, ARS 471, ARS 472, ARS 473, ARS 474, ARS 475, ARS 477, ARS 478, ARS 479, ARS 481, ARS 486, ARS 488, ARS 493, ARS 494, ARS 495, ARS 496, ARS 497
### Core Curriculum Area IV or Freshman Learning Community

<table>
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<td>3 200 level ARS course</td>
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<td>Core Curriculum Area II: Literature</td>
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<td>200 level ARH course</td>
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### Junior

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<tr>
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<tr>
<td>3 300 level ARS elective</td>
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<td>Painting</td>
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<tr>
<td>Sculpture</td>
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<tr>
<td>Ceramics</td>
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<tr>
<td>Printmaking</td>
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</tr>
<tr>
<td>Graphic Design</td>
<td>3</td>
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<tr>
<td>New Media</td>
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<td>Photography</td>
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<td>300 level ARS elective</td>
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### Senior

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<tr>
<td>400 level ARS course in discipline focus area</td>
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### Total credit hours: 109

*General Electives should be taken to reach 120 hour requirement

- 1 ARS 100, ARS 101, ARS 102, ARS 103, ARS 104
- 2 ARS 200, ARS 210, ARS 230, ARS 240, ARS 250, ARS 360, ARS 270
- 3 Drawing: ARS 300, ARS 301 ARS 302
- 4 Painting: ARS 310, ARS 311, ARS 312
- 5 Sculpture: ARS 320, ARS 321, ARS 322
- 6 Ceramics: ARS 330, ARS 331, ARS 332
- 7 Printmaking: ARS 340, ARS 341, ARS 342
- 8 Graphic Design: ARS 350, ARS 351, ARS 352
- 9 New Media: ARS 360, ARS 361, ARS 362
- 10 Photography: ARS 370, ARS 371, ARS 372
- 11 Art History Survey: ARH 203, ARH 204, ARH 206
- 12 Advanced Studio Disciplines: ARS 400, ARS 410, ARS 420, ARS 430, ARS 440, ARS 450, ARS 460, ARS 470
- 13 ARH 400 level/Ancient, Medieval, Early Modern, Non-Western courses: ARH 405, ARH 409, ARH 410, ARH 419, ARH 421, ARH 422, ARH 423, ARH 424, ARH 431, ARH 435, ARH 470, ARH 471, ARH 472, ARH 473, ARH 474, ARH 475, ARH 477 ARH 478, ARH 479, ARH 481, ARH 486, ARH 488, ARH 493, ARH 494, ARH 495
- 14 ARH 400 level/ Contemporary and Modern: ARH 430, ARH 440, ARH 441, ARH 450, ARH 460, ARH 461 ARH 464, ARH 467, ARH 465, ARH 468, ARH 480, ARH 482, ARH 483 ARH 484, ARH 485 ARH 487, ARH 496, ARH 497)

### Requirements for a Minor in Art History

#### Requirements

Select two of the following:

<table>
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<tbody>
<tr>
<td>ARH 203</td>
<td>Ancient and Medieval Art</td>
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<tr>
<td>ARH 204</td>
<td>Early Modern-Contemporary Art</td>
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<tr>
<td>ARH 206</td>
<td>Survey of Asian Art</td>
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#### Art History Electives

Select four of the following:

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<tr>
<th>Art History Electives</th>
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<tr>
<td>ARH 101</td>
<td>The Art Experience</td>
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<tr>
<td>ARH 405</td>
<td>African Art</td>
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<tr>
<td>ARH 409</td>
<td>Egypt in the Age of the Pyramids</td>
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<td>ARH 410</td>
<td>Imperial and Post Imperial Egypt</td>
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<tr>
<td>ARH 419</td>
<td>Arts of Death in the Middle Ages</td>
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<td>ARH 421</td>
<td>Italian Renaissance Art</td>
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<tr>
<td>ARH 422</td>
<td>The Birth of Painting: Portable Pictures Across Renaissance Europe</td>
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<tr>
<td>ARH 423</td>
<td>Study Abroad: European Art</td>
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<td>ARH 424</td>
<td>Northern Renaissance Art</td>
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<td>ARH 430</td>
<td>Eighteenth-Century Art in Europe</td>
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<td>ARH 431</td>
<td>Seventeenth-Century Painting</td>
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<td>ARH 435</td>
<td>Arts of Power in Early Modern Europe</td>
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<td>ARH 440</td>
<td>19th-Century Art I: Neoclassicism and Romanticism</td>
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<td>ARH 441</td>
<td>19th-Century Art II: Impressionism and Post-Impressionism</td>
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ARH 450 American Art to 1900
ARH 460 Twentieth-Century Art to 1945
ARH 461 Modern Design
ARH 464 Art Since 1945
ARH 465 Aspects of Contemporary Art
ARH 467 Modern Architecture
ARH 468 Race and Representation
ARH 470 Tomb Art in East Asia
ARH 471 Topics in Asian Cinema
ARH 472 Buddhist & Hindu Art in India to 1200
ARH 473 Japanese Prints/Printmakers
ARH 474 Landscape and Image in East Asia
ARH 475 Japanese Art
ARH 477 Piety and Power: Art in India after 1200
ARH 478 Buddhist Arts of East Asia
ARH 479 Study Abroad: Art & Culture of South Asia
ARH 480 Art Criticism and Theory
ARH 481 Special Topics: Early Modern Art
ARH 482 Special Topics: Modern Art
ARH 483 Special Topics: Gender and the Visual Arts
ARH 484 Special Topics: Contemporary Art
ARH 485 Special Topics: Museum Studies
ARH 486 Special Topics: South Asia
ARH 487 Special Topics: Field Study
ARH 488 Special Topics: East Asian Art
ARH 490 Seminar: Art Theory
ARH 493 Seminar: South Asian Art
ARH 494 Seminar: East Asian Art
ARH 495 Seminar: Early Modern Art
ARH 496 Seminar: Modern Art
ARH 497 Seminar: Contemporary Art

Total Hours 18

Requirements for a Minor in Art Studio

Requirements Hours
Art Foundations 12
Choose four of the following:
ARS 100 Drawing Foundations
ARS 101 Two-Dimensional Design Foundations
ARS 102 Three-Dimensional Design Foundations
ARS 103 Digital Imaging & Design Foundations
ARS 104 Four-Dimensional Design Foundations
ARS 110 Visual Literacy Foundations
ARS 280 Creativity and Imagination

Art History Survey 3
Choose one of the following:
ARH 203 Ancient and Medieval Art
ARH 204 Early Modern-Contemporary Art
ARH 206 Survey of Asian Art

Art Studio Courses 3
Choose one of the following:
ARS 200 Experiential Drawing
ARS 210 Experiential Painting
ARS 220 Experiential Sculpture
ARS 230 Experiential Ceramics
ARS 240 Experiential Printmaking

Honors in Art History & Art Studio

HONORS IN ART HISTORY:

Purpose
The Honors Program in Art History is designed for outstanding art history students. Through a program emphasizing critical analysis, enhanced writing and original research proficiencies, students will develop skills necessary to professional careers in the arts and humanities and to further graduate study.

Benefits
Students will work closely with faculty mentor and develop extensive research and writing skills. They will also receive a certificate at the spring UAB Honors Convocation and will graduate “With Honors in Art History.”

Eligibility
To be accepted into the Honors Program in Art History, a student must:
- Be a B.A. Art major (Concentration in Art History).
- Have at least a 3.5 GPA in Art History courses.
- Have at least a 3.0 GPA overall.
- Have completed at least 12 hours in art history, 3 hours of which must be at the 400-level.
- Submit an Art History Honors Program application form to the B.A. Art History Advisor for the Department of Art and Art History.

Application forms can be found on the department website. The Department Chair approves admission into the program in consultation with the art history faculty. Admission is acknowledged by a formal letter.

Requirements
- Complete all required courses for the B.A. Art (Art History concentration) major.
- Maintain a 3.5 GPA in art history and 3.0 GPA overall.
- In the senior year, complete ARH 499 Honors Thesis. This course may fulfill one of the art history 400-level elective requirements for the degree. Student should have completed ARH 489 as a prerequisite (capstone course for B.A. Art major)
  - ARH 499 Honors Thesis is a directed study course where the student will work intensively with a faculty mentor to write a formal, extensive research paper on a topic of the student’s choice.
  - Prior to registration in ARH 499, typically the preceding semester, the student will select a member of the art history faculty to serve as faculty mentor and submit a thesis project proposal (3-5 pages in length plus bibliography).
  - Upon approval of the proposal by the faculty mentor, student may register in ARH 499.
  - Formatting, title page, and length guidelines for the thesis may be obtained from the Art History advisor or faculty mentor.
- Obtain signature of faculty mentor on Honors Thesis final approval form.
• Submit 1 copy of signed approval form to B.A. Art History Advisor who will submit the form to the chair of the department.
• Signed approval form must be submitted by last day of classes (Fall and Spring semesters only), preceding the week of final exams.
• Submission of electronic copy of the thesis to the department chair.

Contact
For more information and/or admission to the Art History Honors Program, please review the application form found on the department website under student resources.

HONORS IN ART STUDIO:

Purpose
Honors in Studio Art acknowledges outstanding overall achievement in the major, as demonstrated by the quality and depth of a student’s work. To apply, eligible students must participate in an ARS491 AND submit a portfolio which includes an artist statement. Application for honors does not insure receipt of honors.

Benefits
You will receive a certificate at the spring UAB Honors Convocation and will graduate “With Honors in Art History.”

Eligibility
To be accepted into the Honors Program in Art History, a student must:

• Be a B.F.A. Art Studio major
• Have at least a 3.5 GPA in studio art courses.
• Have at least a 3.0 GPA overall.
• Have completed at least 12 hours in art history, 3 hours of which must be at the 400-level.
• Submit an Honors application form to the your BFA Exhibition faculty.

Application forms can be found on the department website. The Department Chair approves admission into the program in consultation with the art studio faculty. You will receive notification if your application from the Chair of the Department.

Requirements

• Complete all required courses for the B.F.A. major.
• Maintain a 3.5 GPA in studio art and 3.0 GPA overall.
• In the senior year, complete ARS 491: BFA Exhibition course.
  Student should have completed ARH 489 as a prerequisite (capstone course for B. F.A. Art major)
  • ARS 489 BFA Exhibition a directed study course where the student will work intensively with a faculty mentor to create an exhibition and portfolio around a theme of the student’s choice.
• Obtain signature of faculty mentor on Honors final approval form
• Submit a signed approval form to the to departmental Chair’s office.
• Signed approval form must be submitted by last day of classes (Fall and Spring semesters only), preceding the week of final exams.
• Submission of electronic copy of the portfolio (including artist statement) to the department honors faculty mentor.
• The awarding of honors is the decision of the Studio Art faculty. In addition to the above criteria, the following also play a role in the awarding of honors:
  • Your BFA Exhibition faculty member observed you to be self-directed and highly motivated throughout the course of study.
  • Your work in the Senior Exhibition revealed an informed level of critical, conceptual, and technical competence.

Contact
For more information, please review the application form found on the department website under student resources.

Department of Biology

Chair: Steven N. Austad

The Department of Biology has experienced faculty dedicated to research and teaching with interests ranging from the molecular to the ecological level. The broad expertise of our faculty allows diverse emphasis in cellular, molecular, developmental, environmental, evolutionary, genetic, marine, and organismal biology. Our faculty have been recognized by the University and by national and international biological organizations for their excellence in research and teaching.

The curriculum in biology provides general and specific courses for non-majors and prepares the major for graduate study in biology; the professional schools of human and veterinary medicine, dentistry, optometry, and allied health sciences. Additionally, the curriculum prepares the non-major and major student with knowledge required for careers in secondary science education, environmental education, wildlife management in both the public and private sectors, and other careers dependent upon comprehension of biological sciences. The Department of Biology also has a well established Honors curriculum for those students who excel in academics and wish to participate in biological research. This program allows students to conduct research under the mentorship of faculty in the Department of Biology or the School of Medicine, and to graduate with departmental honors. The department offers the following B.S. degrees in biology as well as a minor in biology:

1. Major in Biology – Integrative Biology Track
2. Major in Biology – Marine Science Concentration
3. Major in Biology – Molecular Biology Concentration

Grade Point Average ( Majors and Minors)

A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average.

Transfer Credit

Biology courses in which a grade of D is earned at another institution cannot be applied toward requirements for the major or minor. Students will not be given more credit (semester hours) toward the major or minor than awarded for equivalent courses at UAB, nor more than 8 semester hours of credit in any introductory sequence or combination of courses. Excess hours in these courses may, however, be applied as electives toward the 120 semester hours necessary to satisfy the general degree requirements.

A minimum of 9 semester hours in the major and 6 semester hours in the minor in biology must be taken at UAB.
Graduate Programs

The Department of Biology offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. Further information may be found in the UAB Graduate School Catalog.

Accelerated Master of Science Programs

Fifth Year M.S. Program

The Department of Biology offers an opportunity to earn a B.S. and an M.S. degree in a total of five years. This program offers qualified students mentorship during undergraduate study and supplements professional degrees such as medicine, dentistry, and optometry. The student works closely with a faculty member in an area of intensive research which prepares the student for a Ph.D. degree program in the biological sciences or a future health professions career. It also builds teaching skills for academic careers. Admission to the program requires a minimum 3.25 grade point average; three letters of recommendation; an interview with the admissions committee; and a satisfactory score on the Graduate Record Examination by fall of the senior year. For additional information, please contact Dr. Stephen Watts, Graduate Program Director, at (205) 934-2045 or sawatts@uab.edu.

Major in Biology (p. 167) - (p. 168)
 Integrative Biology Track

Major in Biology - Marine Science Concentration (p. 168)

Major in Biology - Molecular Biology Concentration (p. 169)

Major Requirements for Biology - Integrative Biology Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
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<tr>
<td>MA 125  Calculus I</td>
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<td>Physics</td>
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<tr>
<td>PH 201  College Physics I</td>
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<tr>
<td>&amp; PH 202 and College Physics II</td>
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<tr>
<td>PH 221  General Physics I</td>
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<tr>
<td>&amp; PH 222 and General Physics II</td>
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Biology Requirement

Biology Majors must complete 40 hours of Biology courses approved for the major.  

<table>
<thead>
<tr>
<th>Introductory Biology</th>
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<tbody>
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<td>BY 123  Introductory Biology I</td>
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<tr>
<td>BY 124  Introductory Biology II</td>
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<table>
<thead>
<tr>
<th>Genetics</th>
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<tr>
<td>BY 210  Genetics</td>
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</table>

<table>
<thead>
<tr>
<th>Ecology &amp; Evolution</th>
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<tbody>
<tr>
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<tr>
<td>BY 429  Evolution</td>
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</tr>
<tr>
<td>BY 435  Natural History of Vertebrates</td>
<td></td>
</tr>
<tr>
<td>BY 467  Population Ecology</td>
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</tr>
<tr>
<td>BY 470  Ecology</td>
<td></td>
</tr>
<tr>
<td>BY 474  Chemical Ecology</td>
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<table>
<thead>
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<td>Select one of the following:</td>
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<td>BY 255  Invertebrate Zoology</td>
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<tr>
<td>BY 256  Vertebrate Zoology</td>
<td></td>
</tr>
<tr>
<td>BY 271  Biology of Microorganisms</td>
<td></td>
</tr>
<tr>
<td>BY 442  Experimental Phycology</td>
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<table>
<thead>
<tr>
<th>Physiology and Development</th>
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<tbody>
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<tr>
<td>BY 314  Embryology</td>
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</tr>
<tr>
<td>BY 409  Principles of Human Physiology</td>
<td></td>
</tr>
<tr>
<td>BY 410  Comparative Animal Physiology</td>
<td></td>
</tr>
<tr>
<td>BY 420  General Endocrinology</td>
<td></td>
</tr>
<tr>
<td>BY 440  Immunology</td>
<td></td>
</tr>
<tr>
<td>BY 451  Plant Biology</td>
<td></td>
</tr>
<tr>
<td>BY 475  Comparative Developmental Biology</td>
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</table>

<table>
<thead>
<tr>
<th>Cellular/Molecular</th>
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</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>BY 311  Molecular Genetics</td>
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</tr>
<tr>
<td>BY 330  Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BY 434  Functional Genomics and Systems Biology</td>
<td></td>
</tr>
<tr>
<td>BY 437  Epigenetics</td>
<td></td>
</tr>
<tr>
<td>BY 469  Molecular Ecology and Phylogenetics</td>
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<table>
<thead>
<tr>
<th>Capstone Experience</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Select one of the following (only one can count towards major):</td>
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<tr>
<td>BY 490  Bio Capstone: Human Physiology</td>
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</tr>
<tr>
<td>BY 491  Biology Capstone - Evolution</td>
<td></td>
</tr>
<tr>
<td>BY 492  Biology Capstone - Undergraduate Research</td>
<td></td>
</tr>
<tr>
<td>BY 493  Biology Capstone - Honors Research</td>
<td></td>
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<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Select Biology (BY) courses to total the 40 hour Biology Requirement</td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours                       | 56-58 |

1 Note: Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement.
Biology Majors must complete 40 hours in Biology (BY) courses approved for the major, including BY 123 and BY 124 with a C or better (fulfilling Core Curriculum Area III and the courses taken to satisfy the requirements below. Additional courses to total 40 semester hours selected after consultation with an advisor and consideration of interests and career goals. At least 9 hours must be 400-level or higher. No more than 6 total hours of BY 394, BY 397, BY 398, and BY 492 can be applied towards the 40 hours of Biology (BY) courses. Warning: You cannot apply BY 101, BY 102, BY 111, BY 112, BY 116, or BY 261 toward the Biology major.

GPA Requirement & Residency

A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of nine semester hours in the major must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Graduating Seniors
Students must take a biology major fields test and a departmental survey.

Core Curriculum
Students must take a Philosophy course that meets the QEP Ethics and Civic Responsibility Requirement, either PHL 115 or PHL 116.

Major in Biology with a Marine Science Concentration
The marine science concentration and the molecular biology track prepare students for careers in marine science or research careers in the basic or medically-related sciences.

Major Requirements for Biology with a Marine Science Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MA 125</td>
<td>1</td>
</tr>
<tr>
<td>Calculus I</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>CH 115</td>
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<tr>
<td>General Chem I</td>
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</tr>
<tr>
<td>CH 116</td>
<td>1</td>
</tr>
<tr>
<td>General Chem I Laboratory</td>
<td></td>
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<tr>
<td>or CH 114</td>
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</tr>
<tr>
<td>General Chem I Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 117</td>
<td>3</td>
</tr>
<tr>
<td>General Chem II</td>
<td></td>
</tr>
<tr>
<td>CH 118</td>
<td>1</td>
</tr>
<tr>
<td>General Chem II Laboratory</td>
<td></td>
</tr>
<tr>
<td>or CH 119</td>
<td>1</td>
</tr>
<tr>
<td>General Chem II Laboratory (Honors)</td>
<td></td>
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<tr>
<td>CH 235</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chem I</td>
<td></td>
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<tr>
<td>CH 236</td>
<td>1</td>
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<tr>
<td>Organic Chem I Laboratory</td>
<td></td>
</tr>
<tr>
<td>or CH 234</td>
<td>1</td>
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<tr>
<td>Organic Chem I Laboratory (Honors)</td>
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<tr>
<td>CH 237</td>
<td>3</td>
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<tr>
<td>Organic Chem II</td>
<td></td>
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<tr>
<td>CH 238</td>
<td>1</td>
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<tr>
<td>Organic Chem II Laboratory</td>
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<tr>
<td>or CH 239</td>
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<tr>
<td>Organic Chem II Laboratory (Honors)</td>
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<tr>
<td>CH 460</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Biochemistry</td>
<td></td>
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</tbody>
</table>

or CH 461 Advanced Biochemistry I

Physics
Select one of the following: 8
- PH 201 College Physics I
- & PH 202 and College Physics II
- PH 221 General Physics I
- & PH 222 and General Physics II

Marine Science Electives
Select at least five Marine Environmental Science (MESC) courses approved by the academic advisor.

Biology Requirements
Biology majors must complete 40 hours in Biology (BY) or Marine Environmental Science (MESC) courses approved for the major.

Introductory Biology
BY 123 Introductory Biology I 4
BY 124 Introductory Biology II 4

Genetics
BY 210 Genetics 3

Ecology & Evolution
Select one of the following: 3-4
- BY 470 Ecology
- BY 429 Evolution
- BY 474 Chemical Ecology
- BY 435 Natural History of Vertebrates
- BY 467 Population Ecology
- MESC 411 Costal Wetlands Ecology
- MESC 412 Marine Ecology

Organismal
Select one of the following: 4
- BY 255 Invertebrate Zoology
- BY 256 Vertebrate Zoology
- BY 271 Biology of Microorganisms
- BY 442 Experimental Phycology
- MESC 402 Marine Vertebrate Zoology
- MESC 407 Marine Invertebrate Zoology

Physiology and Development
Select one of the following: 3-4
- BY 314 Embryology
- BY 409 Principles of Human Physiology
- BY 410 Comparative Animal Physiology
- BY 420 General Endocrinology
- BY 440 Immunology
- BY 451 Plant Biology
- BY 475 Comparative Developmental Biology

Cellular/Molecular
Select one of the following: 3
- BY 311 Molecular Genetics
- BY 330 Cell Biology
- BY 434 Functional Genomics and Systems Biology
- BY 437 Epigenetics

Capstone Experience
Select one of the following (only one capstone course can count toward the major): 4
- BY 490 Bio Capstone: Human Physiology
- BY 491 Biology Capstone - Evolution
- BY 492 Biology Capstone - Undergraduate Research
Electives in Biology to total 40 hours

1. Note: Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement.

2. These hours include BY 123 and BY 124 with a C or better (fulfilling in Core Curriculum Area III) and the courses taken to satisfy the requirements below. All of the courses listed below are approved for the major; consult your advisor for a list of additional courses. At least 9 hours must be 400-level or higher. No more than 6 total hours of BY 394, BY 397, BY 398, and BY 492 can be applied towards the 40 hours of Biology (BY) courses. Warning: You cannot apply BY 101, BY 102, BY 111, BY 112, BY 116, or BY 261 toward the biology major.

**GPA Requirement & Residency**

A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of nine semester hours in the major must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

**Additional Requirements**

**General Electives**

Students must take general electives to reach the 120 semester hour requirement.

**Graduating Seniors**

Students must take a biology major fields test and a departmental survey.

**Core Curriculum**

Students must take a Philosophy course that meets the QEP Ethics and Civic Responsibility Requirement, either PHL 115 Contemporary Moral Issues or PHL 116 Bioethics.

**Major Requirements for Biology with a Molecular Biology Concentration**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
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<tr>
<td>MA 125 Calculus I</td>
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<td>CH 115 General Chemistry I</td>
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</tr>
<tr>
<td>CH 116 General Chemistry I Laboratory</td>
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<tr>
<td>or CH 114 General Chemistry I Laboratory (Honors)</td>
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<tr>
<td>CH 117 General Chemistry II</td>
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<td>CH 118 General Chemistry II Laboratory</td>
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</tr>
<tr>
<td>or CH 119 General Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 236 Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 234 Organic Chemistry I Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>3</td>
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<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
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<td>or CH 239 Organic Chemistry II Laboratory (Honors)</td>
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<tr>
<td>CH 460 Fundamentals of Biochemistry (Honors)</td>
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<tr>
<td>or CH 461 Advanced Biochemistry</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PH 201 College Physics I</td>
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<tr>
<td>&amp; PH 202 College Physics II</td>
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<tr>
<td>PH 221 General Physics I</td>
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<tr>
<td>&amp; PH 222 General Physics II</td>
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<tr>
<td>Biology Requirements</td>
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<tr>
<td>Biology Majors must complete 40 hours in Biology courses.</td>
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<td>Introductory Biology 2</td>
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<td>BY 123 Introductory Biology I</td>
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<td>BY 124 Introductory Biology II</td>
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<tr>
<td>Required Molecular Track Courses</td>
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<tr>
<td>BY 210 Genetics</td>
<td>3</td>
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<tr>
<td>BY 245 Fundamentals of Scientific Investigation</td>
<td>3</td>
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<tr>
<td>BY 271 Biology of Microorganisms</td>
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<tr>
<td>BY 311 Molecular Genetics</td>
<td>3</td>
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<tr>
<td>BY 330 Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BY 434 Functional Genomics and Systems Biology</td>
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<td>BY 431 Principles of DNA Technology</td>
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<tr>
<td>BY 433 Advanced Molecular Genetics</td>
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<tr>
<td>BY 440 Immunology</td>
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<tr>
<td>Capstone Experience</td>
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<tr>
<td>Select one of the following (only one capstone course can count towards major):</td>
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<tr>
<td>BY 490 Bio Capstone: Human Physiology</td>
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<tr>
<td>BY 491 Biology Capstone - Evolution</td>
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<tr>
<td>BY 492 Biology Capstone - Undergraduate Research</td>
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<tr>
<td>BY 493 Biology Capstone - Honors Research</td>
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<tr>
<td>Elective Courses</td>
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<tr>
<td>Electives in Biology to total 40 hours.</td>
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</tbody>
</table>

1. Note: Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement.

2. Including BY 123 and BY 124 with a C or better (fulfilling Core Curriculum Area III) and the courses taken to satisfy the requirements below. All of the courses listed below are approved for the major; consult your advisor for a list of additional courses. At least 9 hours must be 400-level or higher. No more than 6 total hours of BY 394, BY 397, BY 398, and BY 492 can be applied towards the 40 hours of Biology (BY) courses. Warning: You cannot apply BY 101, BY 102, BY 111, BY 112, BY 116, or BY 261 toward the biology major.

**GPA Requirement & Residency**

A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of nine semester hours
in the major must be taken at UAB. Transfer students should be aware of the Department of Biology’s policy regarding transfer credit.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Graduating Seniors
Students must take a biology major fields test and a departmental survey.

Core Curriculum
Students must take a Philosophy course that meets the QEP Ethics and Civic Responsibility Requirement, either PHL 115 or PHL 116.

Proposed Program of Study for a Major in Biology

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 106</td>
<td>3 MA 125</td>
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<td></td>
</tr>
<tr>
<td>CH 115</td>
<td>3 EH 102</td>
<td>3</td>
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</tr>
<tr>
<td>&amp; 115R</td>
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<td></td>
</tr>
<tr>
<td>CH 116</td>
<td>1 BY 123</td>
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<td>&amp; 123L</td>
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<tr>
<td>EH 101</td>
<td>3 CH 117</td>
<td>3</td>
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<tr>
<td>&amp; 117R</td>
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<tr>
<td>CAS Freshman Year</td>
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<tr>
<td>Core Curriculum Area II or Area IV</td>
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<table>
<thead>
<tr>
<th>Sophomore</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
<th>Hours</th>
</tr>
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<tbody>
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<tr>
<td>CH 236</td>
<td>1 CH 238</td>
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<tr>
<td>&amp; 124L</td>
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<td>PHL 115 or 116</td>
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<td>Elective</td>
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<tr>
<th>Junior</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
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<tr>
<td>Cellular or Molecular Biology</td>
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<td>4</td>
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<td>&amp; 202R</td>
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<tr>
<td>&amp; 201L</td>
<td>&amp; 202L</td>
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<tr>
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<td>6 Core Curriculum Area II or IV</td>
<td>6</td>
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<table>
<thead>
<tr>
<th>Senior</th>
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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiology/Development</td>
<td>4 Biology Elective</td>
<td>4</td>
<td></td>
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</tr>
<tr>
<td>Ecology/Evolution</td>
<td>4 Biology Electives</td>
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<tr>
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</tbody>
</table>

| Elective | 3 | | | |

Total credit hours: 122

1 Assumes student is placed in MA 106.
2 Assumes student has had one year of high school Chemistry with a grade of C or better.
3 Assumes no Advanced Placement (AP), Dual Enrollment, International Baccalaureate (IB), or College Level Examination Program (CLEP) credit.
4 Must complete either a two History Core IV or two Literature Core II sequence.
5 BY 101, BY 102, BY 111, BY 112, BY 116, and BY 261 do not count toward Biology Electives.
6 Must earn a Biology GPA of at least 2.0.
7 See your Biology Advisor once each term.

Proposed Program of Study for a Major in Biology with a Concentration in Marine Science

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
<th>Hours</th>
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<tbody>
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</tr>
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<tr>
<td>CH 116</td>
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<tr>
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<td>CAS Freshman Year</td>
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<table>
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<tr>
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<th>Second Term</th>
<th>Hours</th>
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<th>Hours</th>
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<tr>
<td>CH 236</td>
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<tr>
<td>&amp; 124L</td>
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<table>
<thead>
<tr>
<th>Junior</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
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<th>Summer Term</th>
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</thead>
<tbody>
<tr>
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<td>&amp; 201R</td>
<td>&amp; 202R</td>
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<tr>
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<td>&amp; 202L</td>
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<table>
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<th>Senior</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
<th>Summer Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Physiology/Development</td>
<td>4 Biology Elective</td>
<td>4</td>
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<td>Ecology/Evolution</td>
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<td>Biology Elective</td>
<td>3 Electives</td>
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</tr>
<tr>
<td>Core Curriculum Area II or IV</td>
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</table>

| Elective | 3 | | | |

Total credit hours: 122
Ecology (if not covered with MESC) 3
Core Curriculum Area II or Area IV 3
Elective 3

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
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<tbody>
<tr>
<td>MA 106</td>
<td>3 MA 125</td>
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<tr>
<td>CH 115</td>
<td>3 EH 102</td>
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<tr>
<td>CH 116</td>
<td>1 BY 123</td>
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<td>&amp; 123L</td>
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</tr>
<tr>
<td>EH 101</td>
<td>3 CH 117</td>
</tr>
<tr>
<td>&amp; 117R</td>
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<tr>
<td>CAS Freshman Year Experience</td>
<td>1 CH 118</td>
</tr>
<tr>
<td>Core Curriculum Area II or Area IV</td>
<td>3</td>
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</tbody>
</table>

Total credit hours: 113-126

1 Assumes student is placed in MA 106.
2 Assumess student has had one year of high school Chemistry with a grade of C or better.
3 Assumes no Advanced Placement (AP), Dual Enrollment, International Baccalaureate (IB), or College Level Examination Program (CLEP) credit.
4 Must complete at least one Literature Core II and two History Core IV or two Literature Core II and one History Core IV.
5 BY 101, BY 102, BY 111, BY 112, BY 116, and BY 261 do not count toward Biology electives.
6 Must earn Biology GPA of at least 2.0
7 See Biology Advisor once each term.
8 Some Biology (BY) courses rotate every other year or once a year, see advisor.
9 18 hours Marine Science (MESC) courses (taken summers at sea lab) contribute to 40 hours in Biology.

Proposed Program of Study for a Major in Biology with a Concentration in Molecular Biology

### Freshman

<table>
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<tr>
<th>First Term</th>
<th>Hours</th>
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<tr>
<td>Freshman Year Experience</td>
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### Sophomore

<table>
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<tbody>
<tr>
<td>Elective 3</td>
<td>Core Curriculum Area II or Area IV 3</td>
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### Junior

<table>
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<tr>
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<tbody>
<tr>
<td>BY 311</td>
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<td>&amp; 271L</td>
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<tr>
<td>PH 201</td>
<td>4 PH 202</td>
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<tr>
<td>&amp; 202R &amp; 202L</td>
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### Senior

<table>
<thead>
<tr>
<th>First Term</th>
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<tbody>
<tr>
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<td>3 BY 431</td>
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<tr>
<td>BY 440</td>
<td>3 BY 245</td>
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<tr>
<td>CH 460 or 461</td>
<td>3 Biology Elective</td>
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<tr>
<td>Biology Elective (see note below)</td>
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</table>

| Elective 3 | undefined |

Total credit hours: 122-124

1 Assumes student is placed in MA 106
2 Assumes student has had one year of High School Chemistry with a grade of C or better.
3 Assumes no Advanced Placement (AP), Dual Enrollment, International Baccalaureate (IB), or College Level Examination Program (CLEP) credit.
4 Must complete at least one Literature Core II and two History Core IV or two Literature Core II and one History Core IV.
5 BY 101, BY 102, BY 111, BY 112, BY 116 and BY 261 do not count toward Biology electives.
6 Must earn a Biology GPA of at least 2.0
7 See Biology Advisor once each term.
8 Some Biology (BY) courses rotate every other year (BY 245) see advisor.
9 Biochemistry - CH 460 is taught summer and fall. CH 461 is only offered in the fall.

### Minor Requirements for Biology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Biology Courses (must earn a grade of C or better)</td>
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<tr>
<td>BY 123 Introductory Biology I</td>
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<tr>
<td>BY 124 Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BY 210 Genetics</td>
<td>3</td>
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<tr>
<td>Biology Electives 2</td>
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<tr>
<td>Select 6 hours from 200-level or higher Biology (BY) courses.</td>
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</tr>
<tr>
<td>Total Hours</td>
<td>17</td>
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</tbody>
</table>

1 Note: BY 123 and BY 124 may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.
2 Not more than a total of three hours in BY 397, BY 398, and BY 498 may be counted toward the minor.

### GPA Requirement & Residency

A student must have at least a 2.0 average in all biology courses attempted and a 2.0 average in all biology courses taken at UAB in order to graduate. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of six semester hours in
the minor must be taken at UAB. Transfer students should be aware of the Department of Biology's policy regarding transfer credit.

Honors Program in Biology

Purpose
The Biology Honors Program offers motivated students the opportunity to develop research and communication skills in preparation for a graduate or professional career.

Eligibility
To be accepted into the Biology Honors Program, a student must:
• Have earned a 3.5 GPA in biology courses attempted.
• Have earned a 3.0 GPA overall.
• Have completed 18 semester hours in biology courses.
• Have enrolled in BY 398 (Undergraduate Research) for at least one semester hour.
• Have arranged with a faculty sponsor in biology to do a research project.

Requirements
Students in the Biology Honors Program will be required to have the following:
• Six semester hours in BY 498 (Honors Research), with each semester hour per term requiring a minimum of four hours of laboratory work per week.
• A formal research proposal, submitted by the end of the first semester of Honors Research, including an introduction, proposed methods, and relevant literature citation.
• A formal written report in the form of a scientific paper.
• An oral or poster presentation at Biology Research Day or the UAB Expo.

In some instances, it will be recommended that biology honors students give a formal presentation of their work at a scientific meeting. Funds may be provided to support participation at such a meeting.

Benefits
In addition to the educational and career benefits of participation in the Biology Honors Program, students who complete the program will be honored at the annual Biology Honors Research Day and will graduate “With Honors in Biology.”

Contact
For more information and/or admission to the Biology Honors Program, contact Dr. Thane Wibbels, Campbell Hall, Room 255A, Birmingham, AL 35294-1170; Telephone (205) 934-4419 or E-mail twibbels@uab.edu

Department of Chemistry

Chair: Richard Dluhy

The Department of Chemistry provides several undergraduate degree programs for chemistry majors and general course offerings for non-majors. All B.S. chemistry degrees are designed to comply with American Chemical Society (ACS) accreditation standards and provide a strong foundation in chemistry that prepares students to be highly qualified to work as professional chemists, pursue advanced studies leading to the Ph.D. degree in chemistry or biochemistry, or gain admission to professional schools in medicine, dentistry, optometry, pharmacy, work as forensic chemists in regional, state, and federal forensic laboratories, work as professional chemists in industrial or government laboratories, or pursue certification to be chemistry educators.

The department offers the following ACS-approved B.S. degrees in chemistry as well as a minor in chemistry:
1. Major in Chemistry
2. Major in Chemistry with a Biochemistry Track
3. Major in Chemistry with a Chemical Education Track
4. Major in Chemistry with a Forensic Chemistry Track
5. Major in Chemistry with a Polymer Chemistry Track

The B.S. degree in chemistry with a biochemistry track, or a B.S. degree in chemistry, with biology as a minor, is recommended for students with career interests in medicine, dentistry, optometry, pharmacy, or other health-related fields. Students whose interests include careers in federal, state, or local forensic laboratories are encouraged to obtain a degree in chemistry with the forensic chemistry track.

The required curricula associated with the B.S. degree in chemistry with available options, and a suggested program of study, are available from the Department of Chemistry Advising Office and on the Department of Chemistry website (www.uab.edu/chemistry).

An exciting feature of the Department of Chemistry’s B.S. degree is the opportunities for undergraduate chemistry majors to participate in world-class research programs. Students are encouraged to become involved in research early in their undergraduate careers. Students are engaged in all aspects of meaningful and significant research programs that cover a variety of projects and encompass every area of chemistry, and biochemistry, and extend into interdisciplinary programs within the UAB biomedical research complex. Students demonstrating success in their research projects are encouraged to present their work at regional and national scientific meetings and are supported by departmental travel scholarships.

All students majoring in chemistry are required to meet with the Undergraduate Advisor (Mr. James Grimes) each term prior to registration. The advisor’s contact information is 205-934-7529 or chemadvise@uab.edu.

Grade Point Average
At least a 2.0 average for all required chemistry courses and a 2.0 average for all required chemistry courses taken at UAB are compulsory for either a major or minor in chemistry. The current UAB course repeat policy and course forgiveness policy will be used in calculating the grade point average.

Transfer Credit / Residency
All chemistry majors and minors must take at least two of the following courses (with laboratories) at UAB, and at least one of these courses with laboratory must be at the 200 level or higher: CH 115/CH 116, CH 117/CH 118, CH 235/CH 236, CH 237/CH 238, CH 325/CH 325L CH 345/CH 345L, CH 355/CH 355L, CH 426/CH 427 or CH 440/CH 427, CH 450/CH 450L, CH 480/CH 480L, or CH 481/CH 481L. Chemistry majors must also take CH 493 at UAB, and at least two of these courses at UAB (if not already satisfied by the residency requirement mentioned above):
CH 426/CH 427 or CH 440/CH 427, CH 450/CH 450L, CH 463 or CH 464, CH 480/CH 480L, CH 481/CH 481L, or CH 497 (which can only count once, for three credit hours, toward this requirement). Chemistry credit from another institution cannot be applied toward requirements for a chemistry major or minor at UAB if the grade is W, WP, WF, D, or F. Courses taken through the Cooperative Exchange Program must be approved in advance and in writing by the chemistry department chair in order for courses to apply toward requirements for a chemistry major or minor."

Core Curriculum for Chemistry
Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

Graduate Programs
The Department of Chemistry offers graduate study leading to the degrees of Doctor of Philosophy and Master of Science. Further information may be obtained from the Graduate Program Director of the Department of Chemistry, the UAB Graduate School Catalog, or the departmental web site (http://www.uab.edu/chemistry).

Major in Chemistry (p. 173)
Major in Chemistry with a Biochemistry Track (p. 174)
Major in Chemistry with a Forensic Chemistry Track (p. 174)
Major in Chemistry with a Chemical Education Track (p. 175)
Major in Chemistry with a Polymer Chemistry Track (p. 176)

Major Requirements for Chemistry
Required Courses in Core Curriculum
Students, in consultation with their academic advisor, must sequence requirements to meet any stated prerequisite requirements for specific courses in their curriculum, including UAB Core Curriculum requirements stated in this catalog. These courses are required for this major and can also fulfill core curriculum requirements:

Area III Sciences: CH 115, CH 116 or CH 114, CH 117, CH 118 or CH 119

Area III Mathematics: MA 125

Requirements  Hours
Mathematics Requirement
MA 126  Calculus II  4

Physics
Select one of the following:  8
PH 201 & PH 202  College Physics I and College Physics II
PH 221 & PH 222  General Physics I and General Physics II ¹

Organic Chemistry
CH 235  Organic Chemistry I  3
CH 236  Organic Chemistry I Laboratory  1
or CH 234  Organic Chemistry I Laboratory (Honors)  3
CH 237  Organic Chemistry II  1
CH 238  Organic Chemistry II Laboratory  3
or CH 239  Organic Chemistry II Laboratory (Honors)  1

Analytical / Inorganic / Physical Chemistry
CH 325  Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics  4
CH 345  Inorganic Chemistry: Principles and Applications of Chemical Periodicity  4
CH 355  Quantitative Analysis  4

Physical/Transition Metal/Instrumental Chemistry
Select one of the following:  4
CH 426 & CH 427  Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory  2
CH 440 & CH 427  Transition Metal Chemistry and Molecular Structure and Spectroscopy Laboratory  2
CH 450 & 450L  Instrumental Analysis and Instrumental Analysis Laboratory ²

Biochemistry
CH 460  Fundamentals of Biochemistry  3

Chemistry Electives
Select one of the following:  3-6
CH 426  Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy ²
CH 440  Transition Metal Chemistry ²
CH 450  Instrumental Analysis ²
CH 451  Chemometrics ³
CH 461  Advanced Biochemistry I ³
CH 462  Advanced Biochemistry II ³
CH 463  Biochemistry Laboratory
CH 464  Physical Biochemistry Laboratory
CH 471  Medicinal Chemistry and Drug Discovery ³
CH 472  Chemistry of Natural Products ³
CH 480  Polymer Chemistry I
CH 481  Polymer Chemistry II
CH 497  Undergraduate Research (two terms strongly recommended)

Capstone Requirement
Select one of the following:  3-4
CH 493  Chemistry in Culture & Ethics
or CH 495 & CH 497  Ethics in Chemical Research and Undergraduate Research

Total Hours  45-49

¹ The calculus-based PH 221 - PH 222 sequence is strongly recommended.
² Each of these courses can only count once toward the chemistry major. If a student wishes to use both CH 426 and 440 as part of the chemistry major, CH 297 may substitute for the lab requirement for the second course the student takes, if the student meets the eligibility requirements for CH 297 and is accepted by an approved faculty mentor for laboratory research.
To count this course as the chemistry elective requires also taking CH 297 Undergraduate Research Experiences before graduation. To do so, the student must meet the eligibility requirements for CH 297 and be accepted by an approved faculty mentor for laboratory research.

**GPA Requirement**

- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.

**Additional Requirements**

<table>
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<th>Requirements</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>General Electives</td>
<td>15-19</td>
</tr>
<tr>
<td>Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.</td>
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</tr>
</tbody>
</table>

**Total Hours** 15-19

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**Major Requirements for Chemistry with Biochemistry Track**

**Required Courses in Core Curriculum**

Students, in consultation with their academic advisor, must sequence requirements to meet any stated prerequisite requirements for specific courses in their curriculum, including UAB Core Curriculum requirements stated in this catalog. These courses are required for this major and can also fulfill core curriculum requirements:

- Area III Sciences: CH 115, CH 116 or CH 114, CH 117, CH 118 or CH 119
- Area III Mathematics: MA 125

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<tbody>
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<td>Mathematics Requirements</td>
<td></td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 123</td>
<td>Introductory Biology I</td>
</tr>
<tr>
<td>BY 124</td>
<td>Introductory Biology II</td>
</tr>
<tr>
<td>Biology</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td>BY 210</td>
<td>Genetics</td>
</tr>
<tr>
<td>BY 271</td>
<td>Biological Microorganisms</td>
</tr>
<tr>
<td>BY 330</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>PH 201 &amp; PH 202</td>
<td>General Physics I and College Physics II</td>
</tr>
<tr>
<td>PH 221 &amp; PH 222</td>
<td>General Physics I and General Physics II</td>
</tr>
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</table>

| Organic Chemistry | |
| CH 235 | Organic Chemistry I | 3 |
| CH 236 | Organic Chemistry I Laboratory | 1 |
| or CH 234 | Organic Chemistry I Laboratory (Honors) | |
| CH 237 | Organic Chemistry II | 3 |
| CH 238 | Organic Chemistry II Laboratory | 1 |

or CH 239 | Organic Chemistry II Laboratory (Honors) |

**Analytical / Inorganic / Physical Chemistry**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 325</td>
<td>Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics</td>
</tr>
<tr>
<td>CH 345</td>
<td>Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
</tr>
<tr>
<td>CH 355</td>
<td>Quantitative Analysis</td>
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</table>

**Physical/Transition Metal/Instrumental Chemistry**

Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 426 &amp; CH 427</td>
<td>Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory</td>
</tr>
<tr>
<td>CH 440</td>
<td>Transition Metal Chemistry &amp; Molecular Structure and Spectroscopy Laboratory</td>
</tr>
<tr>
<td>CH 450 &amp; 450L</td>
<td>Instrumental Analysis and Instrumental Analysis Laboratory</td>
</tr>
</tbody>
</table>

**Biochemistry**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 460</td>
<td>Fundamentals of Biochemistry</td>
</tr>
<tr>
<td>CH 461</td>
<td>Advanced Biochemistry I</td>
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</tbody>
</table>

**Biochemistry Elective**

Select one of the following:

<table>
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<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 462</td>
<td>Advanced Biochemistry II</td>
</tr>
<tr>
<td>CH 463</td>
<td>Biochemistry Laboratory</td>
</tr>
<tr>
<td>CH 464</td>
<td>Physical Biochemistry Laboratory</td>
</tr>
</tbody>
</table>

**Capstone Requirement**

Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 493</td>
<td>Chemistry in Culture &amp; Ethics</td>
</tr>
<tr>
<td>or CH 495 &amp; 497</td>
<td>Ethics in Chemical Research and Undergraduate Research</td>
</tr>
</tbody>
</table>

**Total Hours** 59-61

1 The calculus based PH 221 & PH 222 is strongly recommended.

2 To count this course as the biochemistry elective requires also taking CH 297 Undergraduate Research Experiences before graduation. To do so, the student must meet the eligibility requirements for CH 297 and be accepted by an approved faculty mentor for laboratory research.

**GPA Requirement**

- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.

**Additional Requirements**

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<td></td>
</tr>
</tbody>
</table>

**Total Hours** 15-19

---

**Major Requirements for Chemistry with Forensic Chemistry Track**

**Required Courses in Core Curriculum**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>or CH 239</td>
<td>Organic Chemistry II Laboratory (Honors)</td>
</tr>
</tbody>
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**Analytical / Inorganic / Physical Chemistry**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 325</td>
<td>Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics</td>
</tr>
<tr>
<td>CH 345</td>
<td>Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
</tr>
<tr>
<td>CH 355</td>
<td>Quantitative Analysis</td>
</tr>
</tbody>
</table>

**Physical/Transition Metal/Instrumental Chemistry**

Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 426 &amp; CH 427</td>
<td>Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory</td>
</tr>
<tr>
<td>CH 440</td>
<td>Transition Metal Chemistry &amp; Molecular Structure and Spectroscopy Laboratory</td>
</tr>
<tr>
<td>CH 450 &amp; 450L</td>
<td>Instrumental Analysis and Instrumental Analysis Laboratory</td>
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</table>

**Biochemistry**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CH 460</td>
<td>Fundamentals of Biochemistry</td>
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<tr>
<td>CH 461</td>
<td>Advanced Biochemistry I</td>
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</table>

**Biochemistry Elective**

Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CH 462</td>
<td>Advanced Biochemistry II</td>
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<tr>
<td>CH 463</td>
<td>Biochemistry Laboratory</td>
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<td>CH 464</td>
<td>Physical Biochemistry Laboratory</td>
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</table>

**Capstone Requirement**

Select one of the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CH 493</td>
<td>Chemistry in Culture &amp; Ethics</td>
</tr>
<tr>
<td>or CH 495 &amp; 497</td>
<td>Ethics in Chemical Research and Undergraduate Research</td>
</tr>
</tbody>
</table>

**Total Hours** 59-61

1 The calculus based PH 221 & PH 222 is strongly recommended.

2 To count this course as the biochemistry elective requires also taking CH 297 Undergraduate Research Experiences before graduation. To do so, the student must meet the eligibility requirements for CH 297 and be accepted by an approved faculty mentor for laboratory research.

**GPA Requirement**

- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.

**Additional Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Electives</td>
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<tr>
<td>Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement.</td>
<td></td>
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**Total Hours** 15-19

---

**Major Requirements for Chemistry with Forensic Chemistry Track**

**Required Courses in Core Curriculum**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>or CH 239</td>
<td>Organic Chemistry II Laboratory (Honors)</td>
</tr>
</tbody>
</table>
Students, in consultation with their academic advisor, must sequence requirements to meet any stated prerequisite requirements for specific courses in their curriculum, including UAB Core Curriculum requirements stated in this catalog. These courses are required for this major and can also fulfill core curriculum requirements:

Area II (non-Literature option): CMST 101

Area III Sciences: CH 115, CH 116 or CH 114, CH 117, CH 118 or CH 119

Area III Mathematics: MA 125

<table>
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<th>Hours</th>
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<tr>
<td><strong>Biology</strong>¹</td>
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<tr>
<td>BY 123</td>
<td>4</td>
</tr>
<tr>
<td>BY 124</td>
<td>4</td>
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<tr>
<td>BY 210</td>
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<td>BY 311</td>
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<tr>
<td>BY 429</td>
<td>3</td>
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<tr>
<td><strong>Physics</strong></td>
<td>8</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PH 201 &amp; PH 202</td>
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<tr>
<td>&amp; PH 221 &amp; PH 222</td>
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<tr>
<td><strong>Organic Chemistry</strong></td>
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</tr>
<tr>
<td>CH 235</td>
<td>3</td>
</tr>
<tr>
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<td>CH 238</td>
<td></td>
</tr>
<tr>
<td>or CH 239</td>
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</tr>
<tr>
<td><strong>Analytical/Inorganic/Physical Chemistry</strong></td>
<td></td>
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<tr>
<td>CH 325</td>
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<td>CH 345</td>
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<td>CH 427</td>
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<tr>
<td>CH 450</td>
<td>4</td>
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<tr>
<td><strong>Biochemistry</strong></td>
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</tr>
<tr>
<td>CH 460</td>
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</tr>
<tr>
<td>CH 463</td>
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<tr>
<td><strong>Justice Science</strong></td>
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<tr>
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<td>JS 120</td>
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</tr>
<tr>
<td>JS 567</td>
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</tr>
<tr>
<td>or JS 677</td>
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</tr>
<tr>
<td>CH 297</td>
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</tr>
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</table>

| Research                          |       |
| CH 497                            | 3     |

| Capstone Requirement              |       |
| Select one of the following:      | 1-3   |
| CH 493                            |       |
| or CH 495                         |       |

| Total Hours                       | 83-85 |

1. Completion automatically satisfies three semester hours of Core Curriculum Area II: Fine Art & Humanities.

2. These courses may constitute a biology minor; please see biology department advisor or GPS if interested in this minor.

3. The calculus based sequence PH 221 & PH 222 is strongly recommended.

**GPA Requirement**

• At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.

• The current UAB course forgiveness policy will be used in calculating the grade point average.

**Additional Requirements**

**FYE/FLC Requirement**

Students must also fulfill the FYC/FLC Requirement, if applicable.

**Major Requirements for Chemistry with Chemical Education Track**

**Required Courses in Core Curriculum**

Students, in consultation with their academic advisor, must sequence requirements to meet any stated prerequisite requirements for specific courses in their curriculum, including UAB Core Curriculum requirements stated in this catalog. These courses are required for this major and can also fulfill core curriculum requirements:

Area III Sciences: CH 115, CH 116 or CH 114, CH 117, CH 118 or CH 119

Area III Mathematics: MA 125

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<tr>
<td>&amp; PH 221 &amp; PH 222</td>
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<tr>
<td><strong>Organic Chemistry</strong></td>
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<td>CH 235</td>
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<td>CH 237</td>
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<td>CH 238</td>
<td></td>
</tr>
<tr>
<td>or CH 239</td>
<td>1</td>
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<tr>
<td><strong>Analytical/Inorganic Chemistry</strong></td>
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</tr>
<tr>
<td>CH 325</td>
<td>4</td>
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<tr>
<td>CH 345</td>
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<td>CH 355</td>
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<td>CH 426</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CH 345</td>
<td>Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
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<td>CH 355</td>
<td>Quantitative Analysis</td>
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</tbody>
</table>

**Physical Chemistry**

Select one of the following:

- CH 325: Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics and Physical Chemistry I Laboratory: Thermodynamics and Chemical Kinetics 2
- CH 426 & CH 427: Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory 2

**Biochemistry**

- CH 460: Fundamentals of Biochemistry 3

**Chemistry Electives**

Select one of the following: 3-6

- CH 325 & 325L: Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics and Physical Chemistry I Laboratory: Thermodynamics and Chemical Kinetics 2
- CH 426 & CH 427: Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory 2
- CH 440 & CH 427: Transition Metal Chemistry and Molecular Structure and Spectroscopy Laboratory 2
- CH 450: Instrumental Analysis
- CH 451: Chemometrics 3
- CH 459: Special Topics in Analytical Chemistry 3
- CH 461: Advanced Biochemistry I 3
- CH 462: Advanced Biochemistry II 3
- CH 463: Biochemistry Laboratory
- CH 464: Physical Biochemistry Laboratory
- CH 465: Structural Biochemistry 3
- CH 471: Medicinal Chemistry and Drug Discovery 3
- CH 472: Chemistry of Natural Products 3
- CH 480: Polymer Chemistry I
- CH 481: Polymer Chemistry II
- CH 497: Undergraduate Research (two terms strongly recommended)

**Chemistry Teaching Methods**

- CH 498: Chemistry Teaching Methods 3

**Capstone Requirement**

Select one of the following: 3-4

- CH 493: Chemistry in Culture & Ethics
- or CH 495: Ethics in Chemical Research
- & CH 497: Undergraduate Research

**Total Hours** 52-56

---

1. The calculus based PH 221-PH 222 sequence is strongly recommended.
2. Each of these courses can only count once toward the chemistry major. If a student wishes to use both CH 426 and 440 as part of the chemistry major, CH 297 may substitute for the lab requirement for the second course the student takes, if the student meets the eligibility requirements for CH 297 and is accepted by an approved faculty mentor for laboratory research.

3. To count this course as the chemistry elective requires also taking CH 297 Undergraduate Research Experiences before graduation. To do so, the student must meet the eligibility requirements for CH 297 and be accepted by an approved faculty mentor for laboratory research.

**This program alone DOES NOT lead to certification to teach chemistry. Advising in the School of Education is STRONGLY recommended.**

**GPA Requirement**

- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.

**Additional Requirements**

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<td>29-35</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>29-35</td>
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</table>

**Major Requirements for Chemistry with Polymer Chemistry Track**

**Required Courses in Core Curriculum**

Students, in consultation with their academic advisor, must sequence requirements to meet any stated prerequisite requirements for specific courses in their curriculum, including UAB Core Curriculum requirements stated in this catalog. These courses are required for this major and can also fulfill core curriculum requirements:

- Area III Sciences: CH 115, CH 116 or CH 114, CH 117, CH 118 or CH 119
- Area III Mathematics: MA 125

**Chemistry Teaching Methods**

- CH 498: Chemistry Teaching Methods 3

**Capstone Requirement**

Select one of the following: 3-4

- CH 493: Chemistry in Culture & Ethics
- or CH 495: Ethics in Chemical Research
- & CH 497: Undergraduate Research

**Total Hours** 52-56

---

**Mathematics Requirement**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
</tr>
</tbody>
</table>

**Physics**

Select one of the following: 8

- PH 201 College Physics I
- or PH 202 and College Physics II
- PH 221 General Physics I
- & PH 222 and General Physics II

**Organic Chemistry**

- CH 235 Organic Chemistry I 3
- CH 236 Organic Chemistry I Laboratory 1
- or CH 234 Organic Chemistry I Laboratory (Honors)
- CH 237 Organic Chemistry II 3
- CH 238 Organic Chemistry II Laboratory 1
- or CH 239 Organic Chemistry II Laboratory (Honors)

**Analytical/Inorganic/Physical Chemistry**
CH 325  Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics 4
CH 345  Inorganic Chemistry: Principles and Applications of Chemical Periodicity 4
CH 355  Quantitative Analysis 4

Physical/Transition Metal/Instrumental Chemistry
Select one of the following: 4
- CH 426 & CH 427  Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy and Molecular Structure and Spectroscopy Laboratory
- CH 440  Transition Metal Chemistry and Molecular Structure and Spectroscopy Laboratory
- CH 450 & 450L  Instrumental Analysis and Instrumental Analysis Laboratory

Biochemistry
CH 460  Fundamentals of Biochemistry 3

Polymer
CH 480  Polymer Chemistry I 4
CH 481  Polymer Chemistry II 4

Materials Science and Engineering
MSE 280  Engineering Materials 3
MSE 413  Composite Materials 2
MSE 430  Polymeric Materials 2

Capstone Requirement
Select one of the following: 3-4
- CH 493  Chemistry in Culture & Ethics
- CH 495  Ethics in Chemical Research
- CH 497  and Undergraduate Research

Total Hours 59-60

1  The calculus based PH 221-PH 222 sequence is strongly recommended.

2  MSE 281 may be a required prerequisite. Check with the course instructor.

GPA Requirement
- At least a 2.0 average in all required chemistry courses and a 2.0 average in all required chemistry courses taken at UAB are mandatory for a major in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.

Additional Requirements

Requirements  Hours
General Electives
Students must take general electives (and the FYE/FLC requirement, if applicable) to reach the 120 semester hour requirement. 13-19
Total Hours 13-19

Sample Program of Study for a Major in Chemistry
ACS Approved

Freshman
First Term  Hours  Second Term  Hours
CH 115 & 115R  3  EH 102  3

CH 116 1  CH 117 & 117R  3
Core Curriculum (e.g. HY 101) 1  Core Curriculum (e.g. PHL 116) 1  3
FYE (credit hours may vary)  1
EH 101  3  MA 126  4
MA 125  4

15 14

Sophomore
First Term  Hours  Second Term  Hours
CH 235 & 235R  3  CH 237 & 237R  3
Core Curriculum (e.g. SOC 100) 1  Electives  3
Electives  3  Core Curriculum (e.g. PY 101) 1  3
Core Curriculum (e.g. EH 218) 1  Core Curriculum (e.g. HY 102) 1  3
Core Curriculum (e.g. THR 100) 1  Electives  2
CH 236  1  Electives  2

16 15

Junior
First Term  Hours  Second Term  Hours
CH 345 & 345L  4  CH 355 & 355L  4
PH 221 & 221R & 221L 2  4  Electives  7
& 440  4  & 222R & 222L 2  4
Electives  7  Electives  7

15 15

Senior
First Term  Hours  Second Term  Hours
CH 325 & 325L  4  CH 426 or 440 3  3
CH 460  3  CH 427 3  1
Electives  8  CH 493  3
8  Chemistry Elective (400 level) 1  3
Electives  5

15 15

Total credit hours: 120

1  See GPS for list of courses that can satisfy core and/or major requirements.

2  The calculus based physics sequence PH 221 & PH 222 is strongly recommended instead of the PH 201 & PH 202 sequence.

3  CH 450/450L can substitute for CH 326/427 or CH 440/427.

Sample Program of Study for a Major in Chemistry with a Biochemistry Track
ACS Approved

Freshman
First Term  Hours  Second Term  Hours
CH 115 & 115R  3  BY 124 & 124L  4

1

2

3
CH 116  ... MA 126  & 117R
BY 123  ... & 123L

16  15

Sophomore
First Term  Hours Second Term  Hours
CH 235  ...  3 CH 238  1
Core Curriculum (e.g. THR 100) 1
Elective  1 PH 222  & 222R & 222L  4
CH 236  1 Core Curriculum (e.g. HY 101) 3
PH 221  & 221R  & 221L  3
Core Curriculum (e.g. EH 218) 1

15  15

Junior
First Term  Hours Second Term  Hours
CH 345  ...  4 CH 461  3
Electives  2 CH 355  & 355L  4
CH 460  3 BY 210  3
Core Curriculum (e.g. HY 102) 1
Core Curriculum (e.g. PY 101) 1

15  15

Senior
First Term  Hours Second Term  Hours
CH 325  ...  4 CH 426 or 440  3
CH 325L  0 CH 427  1
Core Curriculum (e.g. CMST 101) 1
Electives  8 CH 493  3

15  14

Total credit hours: 120

1 See GPS for list of courses that can satisfy core and/or major requirements.
2 The calculus-based physics sequence, PH 221 & PH 222, is strongly recommended, instead of the PH 201 & PH 202 sequence.
3 May also choose BY 330 or BY 271/BY 271L.
4 CH 450/450L may substitute for CH 326/427 or CH 440/427.

Sample Program of Study for a Major in Chemistry with a Chemical Education Track

ACS Approved

Freshman
First Term  Hours Second Term  Hours
CH 115  ...  3 CH 118  1
CH 116  ...  1 CH 117  & 117R  3
FYE (Credit hours may vary)  1 Core Curriculum (e.g. PHL 115) 3
EH 101  ...  3 EH 102  3
MA 125  ...  4 MA 126  4
Core Curriculum (e.g. HY 101) 1

15  14

Sophomore
First Term  Hours Second Term  Hours
CH 235  ...  3 CH 237  & 237R  3
Core Curriculum (e.g. EH 218) 1
Elective  3 PH 222  & 222R & 222L  4
CH 236  ...  4 Elective  1

15  15

Junior
First Term  Hours Second Term  Hours
CH 345  ...  4 CH 355  & 355L  4
Electives  2 CH 427  1
CH 460  3 CH 464  3
Core Curriculum (e.g. PY 101) 1
Core Curriculum (e.g. ANTH 101) 1

17  15

Senior
First Term  Hours Second Term  Hours
CH 325  ...  4 CH 498  3
CH 325L  0 CH 493  3
Electives  11 Electives  9

15  15

Total credit hours: 120
This program alone DOES NOT lead to certification to teach chemistry. Advising in the School of Education is STRONGLY recommended.

1. See GPS for list of courses that can satisfy core and/or major requirements.
2. The calculus-based physics sequence, PH 221 and PH 222, is strongly recommended, instead of the PH 201 and PH 202 sequence.
3. CH 426/427 can substitute for CH 325/325L

### Sample Program of Study for a Major in Chemistry with a Forensic Chemistry Track

**ACS Approved**

#### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; 115R</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>CH 116</td>
<td>4</td>
<td>MA 126</td>
<td></td>
</tr>
<tr>
<td>FYE (Credit hours may vary)</td>
<td>1</td>
<td>CH 118</td>
<td>1</td>
</tr>
<tr>
<td>EH 101</td>
<td>4</td>
<td>BY 124 &amp; 124L</td>
<td></td>
</tr>
<tr>
<td>MA 125</td>
<td>4</td>
<td>CH 117 &amp; 117R</td>
<td></td>
</tr>
<tr>
<td>BY 123</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 16 | 15 |

#### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 235 &amp; 235R</td>
<td>3</td>
<td>CH 237 &amp; 237R</td>
<td></td>
</tr>
<tr>
<td>Core curriculum (e.g. THR 100)</td>
<td>1</td>
<td>CH 238</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum (e.g. EH 218)</td>
<td>1</td>
<td>JS 352</td>
<td>3</td>
</tr>
<tr>
<td>CH 236</td>
<td>1</td>
<td>BY 210</td>
<td>3</td>
</tr>
<tr>
<td>JS 110</td>
<td>3</td>
<td>Core Curriculum (e.g. HY 101)</td>
<td></td>
</tr>
<tr>
<td>JS 120</td>
<td>3</td>
<td>Core Curriculum (e.g. PHL 116)</td>
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</table>

| Total Hours | 16 | 16 | 3 |

#### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 250 or 350</td>
<td>3</td>
<td>CH 355 &amp; 355L</td>
<td>3</td>
</tr>
<tr>
<td>Core curriculum (e.g. HY 102)</td>
<td></td>
<td>BY 429</td>
<td>3</td>
</tr>
<tr>
<td>CH 345 &amp; 345L</td>
<td>4</td>
<td>PH 222 &amp; 222R &amp; 222L</td>
<td>4</td>
</tr>
<tr>
<td>BY 311</td>
<td>3</td>
<td>Core Curriculum (e.g. SOC 100)</td>
<td>3</td>
</tr>
<tr>
<td>PH 221 &amp; 221R &amp; 222L</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 14 | 14 | 3 |

#### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 325 &amp; 325L</td>
<td>4</td>
<td>CH 426 or 440 &amp; 3 CH 297</td>
<td>1</td>
</tr>
<tr>
<td>CH 450 &amp; 450L</td>
<td>4</td>
<td>CH 427</td>
<td>1</td>
</tr>
<tr>
<td>CH 497</td>
<td>3</td>
<td>CH 495</td>
<td>1</td>
</tr>
<tr>
<td>FS 567 or 677</td>
<td>3</td>
<td>Core Curriculum (e.g. PY 101)</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum (e.g. CMST 101)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 14 | 11 | 1 |

---

1. See GPS for list of courses that can satisfy core and/or major requirements.
2. The calculus-based physics sequence, PH 221 and PH 222, is strongly recommended, instead of the PH 201 and PH 202 sequence.

### Sample Program of Study for a Major in Chemistry with a Polymer Chemistry Track

**ACS Approved**

#### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; 115R</td>
<td>3</td>
<td>Elective</td>
<td>1</td>
</tr>
<tr>
<td>CH 116</td>
<td>1</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td>CH 118</td>
<td>1</td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
<td>Core Curriculum (e.g. HY 101)</td>
<td>3</td>
</tr>
<tr>
<td>MA 125</td>
<td>4</td>
<td>MA 126</td>
<td>4</td>
</tr>
<tr>
<td>FYE (Credit hours vary.)</td>
<td>1</td>
<td>CH 117 &amp; 117R</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Hours | 14 | 15 |

#### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 235 &amp; 235R</td>
<td>3</td>
<td>CH 237 &amp; 237R</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum (e.g. PHL 115)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 236</td>
<td>3</td>
<td>Core Curriculum (e.g. CMST 101)</td>
<td></td>
</tr>
<tr>
<td>JS 110</td>
<td>3</td>
<td>Core Curriculum (e.g. ANTH 101)</td>
<td></td>
</tr>
<tr>
<td>JS 120</td>
<td>3</td>
<td>Core Curriculum (e.g. EH 218)</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum (e.g. HY 102)</td>
<td>1</td>
<td>Core Curriculum (e.g. THR 100)</td>
<td>1</td>
</tr>
<tr>
<td>Elective (MSE 281)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 14 | 16 |

#### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 345 &amp; 345L</td>
<td>4</td>
<td>PH 222 &amp; 222R &amp; 222L</td>
<td>4</td>
</tr>
</tbody>
</table>

| Total Hours | 14 | 14 | 3 |
Elective 1 CH 355 & 355L 4
MSE 413 3 MSE 430 3
PH 221 4 Electives 4
& 221L
& 221R
Core Curriculum (e.g. PY 101) 3

Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 325</td>
<td>4 CH 426 or 440(^3)</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 325L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 460</td>
<td>3 CH 427(^3)</td>
<td>1</td>
</tr>
<tr>
<td>CH 480</td>
<td>4 CH 481</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 480L</td>
<td>&amp; 481L</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3 CH 493</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Core Curriculum (e.g. PY 101) 3

15 15

Total credit hours: 120

1 See GPS for list of courses that can satisfy core and/or major requirements.
2 The calculus-based physics sequence, PH 221 & PH 222, is strongly recommended, instead of the PH 201 & PH 202 sequence.
3 CH 450/450L can substitute for CH 426/427 or 440/427

Minor Requirements for Chemistry

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Chemistry Courses</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I 1</td>
<td>3</td>
</tr>
<tr>
<td>CH 114 General Chemistry I Laboratory (Honors) 1</td>
<td>1</td>
</tr>
<tr>
<td>or CH 116 General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II 1</td>
<td>3</td>
</tr>
<tr>
<td>CH 118 General Chemistry II Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>or CH 119 General Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CH 234 Organic Chemistry I Laboratory (Honors)</td>
<td>1</td>
</tr>
<tr>
<td>or CH 236 Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 239 Organic Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>Chemistry Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>CH 325 Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics</td>
<td></td>
</tr>
<tr>
<td>CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity</td>
<td></td>
</tr>
<tr>
<td>CH 355 Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>CH 426 Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy</td>
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</tr>
<tr>
<td>CH 440 Transition Metal Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 450 Instrumental Analysis</td>
<td></td>
</tr>
<tr>
<td>CH 451 Chemometrics</td>
<td></td>
</tr>
<tr>
<td>CH 459 Special Topics in Analytical Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 460 Fundamentals of Biochemistry</td>
<td></td>
</tr>
</tbody>
</table>

CH 461 Advanced Biochemistry I
CH 462 Advanced Biochemistry II
CH 463 Biochemistry Laboratory
CH 464 Physical Biochemistry Laboratory
CH 471 Medicinal Biochemistry Laboratory
CH 472 Chemistry of Natural Products
CH 480 Polymer Chemistry I
CH 481 Polymer Chemistry II

Total Hours 19-20

1 May also satisfy the Core Curriculum Area III: Natural Sciences requirement.

GPA and Residency Requirement

- At least a 2.0 average in required chemistry courses and a 2.0 average in required chemistry courses taken at UAB are mandatory for a minor in chemistry.
- The current UAB course forgiveness policy will be used in calculating the grade point average.
- Chemistry courses in which a grade of W, WP, WF, D or F is earned at another institution cannot be applied toward requirements for the chemistry major or minor.
- Students will not be given more semester-hours credit toward the major or minor than awarded for equivalent courses at UAB.
- All chemistry minors must take at least two of the following courses (with laboratories) at UAB, and at least one of these courses with laboratory must be at the 200 level or higher: CH 115/CH 116, CH 117/CH 118, CH 235/CH 236, CH 237/CH 238, CH 325/CH 325L, CH 345/CH 345L, CH 355/CH 355L, CH 426/CH 427 or CH 440/CH 427, CH 450/CH 450L, CH 480/CH 480L, or CH 481/CH 481L.

Honors Program in Chemistry

Purpose

The Chemistry Honors Program is aimed toward outstanding chemistry majors and is designed to enhance the students’ problem solving, critical thinking, and communication skills. The program provides an excellent preparation for graduate school or professional careers.

Eligibility

Acceptance into the Chemistry Honors Program requires the student to:

- Have earned a 3.25 GPA in required chemistry courses attempted;
- Have earned a 3.0 GPA overall;
- Have completed the following courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 116 General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 114 General Chemistry I Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 118 General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 119 General Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CH 234 Organic Chemistry I Laboratory (Honors)</td>
<td></td>
</tr>
<tr>
<td>or CH 236 Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or CH 239 Organic Chemistry II Laboratory (Honors)</td>
<td></td>
</tr>
</tbody>
</table>
CH 238  Organic Chemistry II Laboratory  1
or CH 239  Organic Chemistry II Laboratory (Honors)

• Have arranged with a faculty mentor to do a research project in chemistry; and
• Have submitted the honors program application form and a one-page honors research proposal to the Chemistry Honors Director.

Requirements

• Prior approval of the Chemistry Honors Director.
• Prior completion of 6 semester hours of undergraduate research CH 497.
• Enrollment in Honors Thesis, CH 499, requiring a senior thesis written in ACS format for a scientific paper.
• An oral presentation and defense of the thesis before the student’s Honors Research Committee.

Where appropriate, the Honors Committee may recommend that chemistry honors students make a formal presentation of their work at the annual meeting of the Alabama Academy of Science or a regional or national meeting of the American Chemical Society.

Benefits

In addition to the benefits associated with a mentoring program that fosters a spirit of inquiry, independence, and initiative and integrates the student’s prior course work into a working knowledge of chemistry in the laboratory, the student who completes the program will graduate “With Honors in Chemistry.”

Contact

For more information and/or admission to the Chemistry Honors Program, contact

Dr. Gary Gray
Director of the Department of Chemistry Honors Program
Chemistry Building, Room 288
Birmingham, AL 35294-1240
Telephone (205) 934-8094
e-mail: gmgray@uab.edu

Department of Communication Studies

Chair: Dr. Timothy Levine

The Department of Communication Studies is concerned with human interaction and communication in all of its forms. The department offers concentrations in Communication Management and Mass Communication.

Students interested in studying communication should consult the department chair or undergraduate coordinator as well as the requirements set by the College of Arts and Sciences.

Major in Communication Studies with Communication Management Concentration

The Communication Management concentration is designed for students interested in the general principles of communication from interpersonal relationships to the theory and practice of public dialogue. A minor is available in Communication Management for non-majors.

Major in Communication Studies with a Mass Communication Concentration

The Mass Communication concentration allows students to specialize in journalism, broadcasting, or public relations. Minors are available in Mass Communication. A Minor is required for a degree in Mass Communication.

Specializations

Students interested in developing a concentration in mass communication may select from one of three specializations available in the department: journalism, broadcasting, or public relations. Students specializing in one of the mass communication specializations may also major or minor in communication management.

Journalism

The curriculum in journalism is designed to prepare students for work with newspapers, magazines and company publications. In addition to courses in writing, reporting, and editing, the journalism program frequently offers special courses aimed at meeting the media demands of Birmingham, its people, and its publications.

Broadcasting

Students in broadcasting prepare for professional careers in television production, news operations, or management. In addition to skills courses, students are given a strong theoretical foundation designed for both the media professional and the potential graduate student in mass communication.

Public Relations

Public relations is a pre-professional program designed to acquaint students with the theoretical knowledge and the practical skills necessary for relating ideas and information to man “publics.” The program stresses writing, oral, analytical skills and media selection.

Major Requirements for Communication Studies with a Concentration in Communication Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>CMST 105  Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 494  Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CMST 103  History of Mass Media (Required Courses)</td>
<td>3</td>
</tr>
<tr>
<td>Communication Management Electives</td>
<td>30</td>
</tr>
</tbody>
</table>

Select 30 credit hours from the following courses. At least 6 hours must be taken at the 400 level.:  

<table>
<thead>
<tr>
<th>Courses</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>CMST 300  Human Communication in Everyday Life</td>
<td></td>
</tr>
<tr>
<td>CMST 305  Applied Communication Theory</td>
<td></td>
</tr>
<tr>
<td>CMST 309  Interviewing</td>
<td></td>
</tr>
<tr>
<td>CMST 310  Communications and Teamwork</td>
<td></td>
</tr>
<tr>
<td>CMST 311  Organizational Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 315  Communication Leadership and Management</td>
<td></td>
</tr>
<tr>
<td>CMST 322  Argumentation Theory</td>
<td></td>
</tr>
<tr>
<td>CMST 339  Introduction to Public Relations</td>
<td></td>
</tr>
<tr>
<td>CMST 356  Propaganda and Public Persuasion</td>
<td></td>
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<tr>
<td>CMST 380  Health Communication</td>
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</tr>
<tr>
<td>CMST 400  Professional Presentations</td>
<td></td>
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<tr>
<td>CMST 401  Instructional Communication</td>
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</tr>
<tr>
<td>CMST 411  Organizational Communication Project</td>
<td></td>
</tr>
<tr>
<td>CMST 414  Language and Thought</td>
<td></td>
</tr>
</tbody>
</table>
CMST 415  Intercultural & International Communication
CMST 455  Seminar in Political Communication
CMST 458  Media Criticism
CMST 460  Communication and Social Movements in America
CMST 481  Communication and Aging
CMST 492  Independent Study
CMST 493  Special Topics in Communication Studies
CMST 494  Communication Research Methods

Total Hours 39

Major Requirements for Communication Studies with a Concentration in Mass Communication - Broadcasting

Requirements Hours
Required Courses 1
CMST 103  History of Mass Media 3
CMST 105  Introduction to Human Communication 3
CMST 210  Newswriting and Reporting I 3
CMST 283  Visual Media Production I 3
CMST 370  Fundamentals of Broadcast Journalism 3
CMST 371  Copywriting for Broadcast Media 3
CMST 383  Visual Media Production II 3
CMST 402  Mass Communication Law 3
CMST 483  Visual Media Production III 3
CMST 494  Communication Research Methods 3
CMST 495  Mass Media and Society 3

Mass Media Internship
Take at least two internship hours:

Major Electives
Select nine credit hours from 300-level or 400-level Communication Studies.

Total Hours 41

1 Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.

Major Requirements for Communication Studies with a Concentration in Mass Communication - Public Relations

Requirements Hours
Required Courses 1
CMST 103  History of Mass Media 3
CMST 105  Introduction to Human Communication 3
CMST 210  Newswriting and Reporting I 3
CMST 283  Visual Media Production I 3
CMST 370  Fundamentals of Broadcast Journalism 3
CMST 371  Copywriting for Broadcast Media 3
CMST 383  Visual Media Production II 3
CMST 402  Mass Communication Law 3
CMST 483  Visual Media Production III 3
CMST 494  Communication Research Methods 3
CMST 495  Mass Media and Society 3

Mass Media Internship
Take at least two internship hours:

Major Electives
Select nine credit hours from 300-level or 400-level Communication Studies.

Total Hours 41

1 Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.

Major Requirements for Communication Studies with a Concentration in Mass Communication - Journalism

Requirements Hours
Required Courses 1
CMST 103  History of Mass Media 3
CMST 105  Introduction to Human Communication 3
CMST 210  Newswriting and Reporting I 3
CMST 283  Visual Media Production I 3
CMST 370  Fundamentals of Broadcast Journalism 3
CMST 371  Copywriting for Broadcast Media 3
CMST 383  Visual Media Production II 3
CMST 402  Mass Communication Law 3
CMST 483  Visual Media Production III 3
CMST 494  Communication Research Methods 3
CMST 495  Mass Media and Society 3

Mass Media Internship
Take at least two internship hours:

Major Electives
Select nine credit hours from 300-level or 400-level Communication Studies.

Total Hours 41

1 Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.
Major Electives
Select two courses not previously taken 6
CMST 311 Organizational Communication
CMST 321 Persuasion Communication
CMST 322 Argumentation Theory
CMST 343 Public Relations Methods II
CMST 356 Propaganda and Public Persuasion
CMST 400 Professional Presentations
CMST 413 Nonverbal Communication
CMST 425 Communication in Social and Personal Relationships
CMST 455 Seminar in Political Communication
CMST 491 Internship
Total Hours 41

Completion of CMST 105 automatically satisfies the Core Curriculum Area IV Speech requirement.

Additional Requirements
Minor
Completion of a minor is not required for this degree.

Proposed Program of Study for a Major in Communication Management

Freshman
First Term Hours Second Term Hours
CMST 101 3 CMST 103 3
CMST 105 3
6 3

Sophomore
First Term Hours Second Term Hours
Communication Management 6 Communication Management 6
Electives 1 3 Elective II 4
6 6

Junior
First Term Hours Second Term Hours
CMST 494 3 CMST 495 3
Electives III 5
6 6

Senior
First Term Hours Second Term Hours
CMST 491 1-3 CMST 493 3
6 3
Total credit hours: 42

Public Speaking is highly recommended as a core choice for Communication Studies majors and minors.

Proposed Program of Study for a Major in Mass Communication with a Broadcasting Specialization

Freshman
First Term Hours Second Term Hours
CMST 101 3 CMST 105 3
CMST 103 3
6 3

Sophomore
First Term Hours Second Term Hours
CMST 210 3 CMST 283 3
CMST 370 3 CMST 371 3
6 6

Junior
First Term Hours Second Term Hours
CMST 383 3 CMST 402 3
CMST 494 3 CMST 495 3
6 6

Senior
First Term Hours Second Term Hours
CMST 491 1-3 CMST 493 3
1-3 3
Total credit hours: 37-39

Ideally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities and fine arts, 9 hours of social science, and 4 hours of science and mathematics.

Public Speaking is highly recommended as a core choice for Communication Studies majors and minors; however, other options exist.

Proposed Program of Study for a Major in Mass Communication with a Journalism Specialization

Freshman
First Term Hours Second Term Hours
EH 101 1 3 EH 102 1 3
CMST 101 3 CMST 103 3
CMST 105 3
9 6

Sophomore
First Term Hours Second Term Hours
CMST 210 3 CMST 310 3
MC/CM Elective (300 level or above) 3 CMST 402 3
6 6

Select two courses from CMST 300, CMST 301, CMST 309 or CMST 310.
Select two courses from CMST 401, CMST 413, CMST 414, CMST 455 or CMST 492.
Select two courses from CMST 400, CMST 411, CMST 415 or CMST 492.
Proposed Program of Study for a Major in Mass Communication with a Public Relations Specialization

Freshman

<table>
<thead>
<tr>
<th>Term</th>
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<tr>
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<tr>
<td></td>
<td>CMST 103</td>
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<td>CMST 103</td>
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Sophomore

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<tr>
<td></td>
<td>CMST 210</td>
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<td></td>
<td>CMST 495</td>
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<tr>
<td>Sophomore</td>
<td>CMST 402</td>
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<tr>
<td></td>
<td>CMST 494</td>
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<td></td>
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Junior

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<tr>
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<td>CMST 339</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CMST 356</td>
<td>3</td>
</tr>
<tr>
<td>Junior</td>
<td>CMST 310</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CMST 340</td>
<td>3</td>
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</table>

Senior

<table>
<thead>
<tr>
<th>Term</th>
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<tr>
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<td>CMST 311</td>
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<td>Senior</td>
<td>CMST 442</td>
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<td></td>
<td>CMST 491</td>
<td>1-3</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

Total credit hours: 49-51

1. EH 101 and EH 102 are listed because they are prerequisites for CMST 210, which is required for these specializations (Public Relations and Journalism). Additionally, at the end of the first year, the student would have completed the university composition requirement (6 hours), 6 hours of humanities and fine arts, 9 hours of social science, and 4 hours of science and mathematics.

2. Public Speaking is highly recommended as a core choice for Communication Studies majors and minors; however, other options exist.

Minor Requirements for Communication Management

A minor for non-majors consists of the following:

Requirements | Hours
---|---
CMST 105 Introduction to Human Communication | 3
CMST 311 Organizational Communication | 3
CMST 413 Nonverbal Communication | 3
Three additional courses, approved by departmental advisor or chair | 9

Total Hours | 18

Minor Requirements for Mass Communication

Requirements | Hours
---|---
CMST 103 History of Mass Media | 3
CMST 210 Newswriting and Reporting I | 3
CMST 306 Investigative Reporting | 3
CMST 308 Newswriting and Reporting II | 3
CMST 311 Organizational Communication | 3
CMST 339 Introduction to Public Relations | 3
CMST 356 Propaganda and Public Persuasion | 3
CMST 305 Applied Communication Theory | 3
CMST 309 Interviewing | 3
CMST 339 Introduction to Public Relations | 3
CMST 356 Propaganda and Public Persuasion | 3
CMST 413 Nonverbal Communication | 3
CMST 490 Media Citizenship | 3
CMST 356 Propaganda and Public Persuasion | 3
CMST 400 Professional Presentations | 3
CMST 413 Nonverbal Communication | 3
CMST 455 Seminar in Political Communication | 3

Total Hours | 21

Honors in Communication Studies

The Honors Program in Communication Studies offers an enhanced and challenging academic experience for exceptional and highly motivated undergraduate students, especially those considering graduate school.
Students who complete the program will graduate “With Honors in Communication Studies.”

Eligibility and Application Process

To be eligible, a student must be a declared Communication Studies major and must have a cumulative, institutional, and Communication Studies GPA of 3.5 or above.

Requirements

1. Fulfill the normal requirements for the Communication Management major or Mass Media concentrations.
2. Submit a completed Communication Studies Honors Program application form to the Director of Departmental Honors for approval. Students must secure permission of the Director and their mentor in order to enter the Communication Studies Honors Program.
3. Maintain and graduate with a cumulative, institutional, and Communication Studies GPA of 3.5 or above.
4. Successfully complete and defend (no later than four weeks before graduation) an Undergraduate Honors Thesis conducted under the supervision of a faculty member in the department.

Contact

1. For more information and/or admission to the Communication Studies Honors Program, please contact the Chair of the Department.

Department of Computer and Information Sciences

cis.uab.edu

Chair: Yuliang Zheng

The Department of Computer and Information Sciences (CIS) offers a B.S. major and a minor in CIS. The B.S. degree in CIS is accredited by the Computing Accreditation Commission of ABET, abet.org (http://www.abet.org). The CIS major is designed to give students a broad background in the structure and theory of information, programming methodologies, and the hardware and software of computer systems. There is also a concentration that offers an opportunity for specialization in computer networking. Minors are available for students who are not CIS majors but who expect to use the computer in the application area of their major field. The Department is especially interested in students getting job-related experience and training through internships and co-operative education opportunities with local and regional high technology companies. Also, the undergraduate majors are sufficiently flexible such that majors or minors in complementary areas such as business can be accomplished within the normal degree time frame. For more information, see the CIS department web site at cis.uab.edu.

Requirements for students transferring to the CIS major from other programs within UAB

Students admitted to an undergraduate program at UAB may transfer to CIS provided they have earned a UAB GPA of 2.0 or better.

Requirements for students transferring to the CIS major from other institutions

Transfer students from other institutions may transfer to the CIS program provided they have earned a GPA of 2.0 or better. If this requirement is not met, transfer students must transfer as a Liberal Arts major in the College of Arts and Sciences, meet the GPA requirement, and then apply to become a CIS major.

Grade point average

For both the major and minor, a grade of C or better is required in each of the computer and information sciences courses. If a student receives a grade D or F in any CIS course, then the student will only be allowed one chance to retake that course and pass it (grade C or better).

CIS courses taken at another institution for which a grade of D was received may not be counted toward the CIS major or the CIS minor.

All CIS majors must maintain a GPA of 2.2 or better in all CIS courses taken. If the CIS GPA falls below 2.2, then the student will be put on probation and student must raise his or her CIS GPA to 2.2 or above within a year after being placed on probation. At the end of the probation term, if the CIS GPA is not at or above 2.2, then the student will be dismissed from the major, and be reclassified as an undeclared major in the College of Arts and Sciences. Note that this requirement is in addition to the minimum UAB GPA of 2.0 or better required to be in good standing. A student who is dismissed from the CIS major as described here may reapply to be CIS major provided the student has raised his or her CIS GPA to 2.2 or higher and also has a UAB GPA to 2.0 or better.

300 and 400-level courses

In the CIS major, at least 12 semester hours of CIS courses at the 300 level or above must be taken at UAB. Any CIS course at the 300 level or above can be taken to satisfy the 12 semester hour CIS elective credit. A maximum of 3 semester hours may be obtained in Directed Readings. Although not required, CIS majors have the option to structure their 12 semester hours of CIS program electives as a specialization in Computer Networking. Course substitutions may be made within this specialization with CIS advisor approval.

CIS courses at the 400-level and above are normally restricted to CIS Majors. Non-majors may register for such courses only with the specific permission of the specific course Instructor.

Graduate Programs

The Department of Computer and Information Sciences offers graduate study leading to the Master of Science in Computer and Information Sciences, and Doctor of Philosophy in Computer and Information Sciences. We also offer, jointly with Justice Sciences, a Master of Science degree in Computer Forensics and Security Management. Further information may be obtained from the department or the UAB Graduate School Catalog.

Advanced undergraduates with a CIS GPA of 3.0 or better may take graduate courses with the permission of the instructor.

Accelerated Master of Science Program

The Department of Computer and Information Sciences offers an opportunity to earn a B.S. and an M.S. degree in a total of five years. This program offers qualified students mentorship during undergraduate study. The student works closely with a faculty member in an area of intensive research that prepares the student for a Ph.D. degree program in computer science or a future career in computer science. Admission to the program requires a minimum 3.5 GPA, three letters of recommendation from faculty, including one from their mentor, and an interview with the admissions committee. Students should apply for entrance into the accelerated M.S. program by the end of their
sophomore year. If the student does not enter with AP credits, it may be necessary to take some summer courses. For additional information, please contact Dr. Chengcui Zhang, Graduate Program Director, at (205) 934-2213 or czhang02@uab.edu.

UABTeach

The CIS Department participates in UABTeach (https://www.uab.edu/uabteach). For more information, see the UABTeach (https://www.uab.edu/uabteach) website at https://www.uab.edu/uabteach/

Major Requirements for B. S. in Computer and Information Sciences

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mathematics Requirements</strong> 1, 2</td>
<td></td>
</tr>
<tr>
<td>MA 125  Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126  Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6-7</td>
</tr>
<tr>
<td>MA 227  Calculus III</td>
<td></td>
</tr>
<tr>
<td>MA 252  Introduction to Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 260  Introduction to Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MA 360  Scientific Programming 3</td>
<td></td>
</tr>
<tr>
<td>MA 434  Algebra I: Linear</td>
<td></td>
</tr>
<tr>
<td>MA 440  Advanced Calculus I</td>
<td></td>
</tr>
<tr>
<td>MA 444  Vector Analysis</td>
<td></td>
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<tr>
<td>MA 445  Complex Analysis</td>
<td></td>
</tr>
<tr>
<td>MA 463  Operations Research I</td>
<td></td>
</tr>
<tr>
<td>MA 470  Differential Geometry I</td>
<td></td>
</tr>
<tr>
<td>MA 472  Geometry I</td>
<td></td>
</tr>
<tr>
<td>MA 485  Probability</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences Requirement</strong> 1</td>
<td></td>
</tr>
<tr>
<td>12 semester hours are required in two different laboratory sciences.</td>
<td></td>
</tr>
<tr>
<td>These 12 hours must include a two course sequence, chosen from the following:</td>
<td></td>
</tr>
<tr>
<td>BY 123  Introductory Biology I</td>
<td></td>
</tr>
<tr>
<td>&amp; BY 124  and Introductory Biology II</td>
<td></td>
</tr>
<tr>
<td>CH 115  General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CH 116  and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117  General Chemistry II</td>
<td></td>
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<tr>
<td>&amp; CH 118  and General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>PH 221  General Physics I</td>
<td></td>
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<tr>
<td>&amp; PH 222  and General Physics II</td>
<td></td>
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<tr>
<td><strong>Required Computer and Information Sciences Courses</strong> 1</td>
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<tr>
<td>CS 103  Introduction to Computation</td>
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<tr>
<td>CS 203  Object-Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS 250  Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 303  Algorithms and Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 330  Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 350  Automata and Formal Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS 355  Probability and Statistics in Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CS 401  Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS 420  Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS 433  Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 499  Senior Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Complete twelve hours in Computer and Information Sciences courses at the 300-level or above. A maximum of two of the following courses may be used:</td>
<td></td>
</tr>
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</table>

| CS 334  Networking                   |     |
| CS 336  Network Security             |     |
| CS 410  Database Management Systems  |     |
| CS 431  Distributed Systems          |     |
| CS 435  Network Programming          |     |
| CS 436  Computer Security            |     |
| CS 437  Cybercrime and Forensics     |     |
| CS 443  Cloud Security               |     |

| **Total Hours**                      | 74-75 |

1 A grade of "C" or better must be earned in each course.
2 Completion of MA 125 or MA 126 automatically satisfies the Area III: Mathematics Requirement.
3 Can be counted towards either Math requirement or CS elective not both.

Additional Requirements

General Electives
Students must take general electives to reach the 120 semester hour requirement. These must include CMST 101 Public Speaking and PHL 115 Contemporary Moral Issues.

Proposed Program of Study for a Major in Computer and Information Sciences

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<thead>
<tr>
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<tr>
<td>CS 103</td>
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<td>CS 250</td>
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<tr>
<td>MA 125</td>
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<td>MA 126</td>
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<td>Laboratory Science I</td>
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<td>EH 102 (Area I)</td>
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<td>CS 203</td>
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<td>Lab Science III</td>
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<tr>
<td>CS 330</td>
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<td>CS 401</td>
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<td>CS 350</td>
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<td>CS elective</td>
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<td>CMST 101 (Area II)</td>
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<td>PHL 115 (Area II)</td>
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<td>Area IV</td>
<td>3</td>
<td>Math elective</td>
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<tr>
<td>General elective</td>
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<td>General elective</td>
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<tr>
<td><strong>Total Hours</strong></td>
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<td>15</td>
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</tbody>
</table>
Senior

First Term | Hours Second Term | Hours
--- | --- | ---
CS 420 | 3 | CS 433 | 3
CS 499 | 3 | CS elective | 3
CS Elective | 3 | CS elective | 3
Area IV | 3 | Area II: Fine Art | 3
General elective | 3 | General elective | 3

15 15

Total credit hours: 120

Minor Requirements for Computer and Information Sciences

Requirements

<table>
<thead>
<tr>
<th>Required CIS courses. Must earn a grade of C or better</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 103</td>
<td>Introduction to Computation</td>
</tr>
<tr>
<td>CS 203</td>
<td>Object-Oriented Programming</td>
</tr>
<tr>
<td>CS 250</td>
<td>Discrete Structures</td>
</tr>
<tr>
<td>CS 303</td>
<td>Algorithms and Data Structures</td>
</tr>
</tbody>
</table>

| CIS Electives | Select 3 hours from 300-level or higher CIS courses (CS 330 is recommended) | 3 |

Total Hours: 18

Note: A student who takes CS 330 as the elective will be ready to apply directly to the CIS M.S. program.

GPA Requirement and Residency

A student must have at least a 2.0 average in all CIS courses attempted and a 2.0 average in all CIS courses taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average. A minimum of six semester hours in the minor must be taken at UAB. Transfer students should be aware of the Department of Computer and Information Science’s policy regarding transfer credit.

Honors Program: Computer and Information Sciences

Purpose

The Computer and Information Sciences Honors Program offers outstanding, highly motivated students the opportunity to develop research skills in preparation for graduate work or a professional career.

Eligibility

In order to be accepted into the Computer and Information Sciences Honors program, a student must:

- have earned a 3.5 GPA in computer and information sciences (CS) courses;
- have earned a 3.0 GPA overall;
- have completed 18 semester hours in CS courses;
- have enrolled in Undergraduate Honors Research (CS 398) for at least 1 semester hour; and
- have arranged with a faculty sponsor in Computer and Information Sciences to do a research project.

Requirements

Students in the Computer and Information Sciences Honors Program will be required to have the following:

- a minimum of 3 semester hours in Undergraduate Honors Research (CS 398) with each semester hour involving a minimum of three hours of laboratory work per week during the semester of enrollment;
- a formal research proposal submitted by the end of the first term of Honors Research, including an introduction, proposed methods, and relevant literature citation;
- a formal written report in the form of a scientific paper; and
- an oral or poster presentation at a Computer and Information Sciences departmental seminar.

In some instances, it will be recommended or required that Computer and Information Sciences Honors students give a formal presentation of their work at a scientific meeting.

Benefits

In addition to the educational and career benefits of participating in the Computer and Information Sciences Honors program, students who complete the program will graduate “With Honors in Computer and Information Sciences.”

Contact

For more information and/or admission to the Computer and Information Sciences Honors program, contact:

Dr. John K. Johnstone
1300 University Blvd. Room 125, Campbell Hall
Birmingham, AL 35294-1170
Telephone Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4 /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-qformat:yes; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:11.0pt; font-family:"Calibri","sans-serif"; color:#000000;} (205) 975-5633
E-mail: jkj@uab.edu (bryant@cis.uab.edu)

Department of English

Chair: Alison Chapman
Director, Graduate Studies: Kyle Grimes
Director, Undergraduate Studies: Daniel Siegel
Director, Creative Writing Program: James Braeliz
Director, Freshman Composition and Developmental Program: Christopher Minnix
Director, Professional Writing: Bruce McComiskey
Director, Linguistics: David Basilico
Director, Departmental Honors: Adam Vines
Director, Internships: Cynthia Ryan

The Department of English offers programs of study leading to the degree of Bachelor of Arts with a major or minor in English. The
department offers four tracks to the English major: an English major with a concentration in literature, an English major with a concentration in professional writing, an English major with a concentration in creative writing, and an English major with a concentration in linguistics. The department offers four different minors: a minor in English literature, a minor in professional writing, a minor in creative writing, and a minor in linguistics. The Department of English also offers courses leading to the Master of Arts degree in English. Further information about the department and its programs may be obtained from the department website (http://www.uab.edu/cas/english) or the department office; information on the graduate program may also be found in the UAB Graduate School Catalog.

English Literature

The study of English literature challenges students to develop their skills in reading, critical analysis, and written expression and also to develop a deeper appreciation of the aesthetic and historical contexts in which authors wrote. Students may pursue a concentration in literature within the English major or a minor in literature.

Creative Writing

Students may pursue a concentration in creative writing within the English major or a minor in creative writing, taking workshops in poetry, fiction, creative nonfiction, and writing for young people; one forms class; and special topics in creative writing.

Linguistics: Interdisciplinary Program

Students interested in a concentration in linguistics within the English major or a minor in linguistics are invited to participate in an interdisciplinary program. The linguistics concentration and minor are designed for students interested in careers represented by the participating disciplines that might involve detailed knowledge of natural or artificial languages. Note that the program is not necessarily one for “people who speak a lot of languages,” but rather is intended for students interested in the structure and function of language. Students should consult the program director for advising.

Professional Writing

Students interested in non-fiction writing for corporate and public life may pursue a concentration in professional writing within the English major or a minor in writing.

Major in English with a Concentration in Literature (p. 188)

Major in English with a Concentration in Creative Writing (p. 190)

Major in English with a Concentration in Linguistics (p. 192)

Major in English with a Concentration in Professional Writing (p. 194)

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**Major Requirements for English with a Concentration in Literature**

<table>
<thead>
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<td>&amp; EH 218 and World Literature II: 1660-Present</td>
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<td>EH 221 British and Irish Literature I: Before 1800</td>
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<td>&amp; EH 222 and British and Irish Literature II: 1800-Present</td>
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<td>EH 223 American Literature I: Before 1865</td>
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<td>&amp; EH 224 and American Literature II: 1865-Present</td>
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**African, African American, or African Diasporic Literature**

Select one of the following: 3

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<td>EH 365 African American Literature, 1746-1954</td>
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<td>EH 422 African Literature</td>
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<td>EH 423 African Women's Literature</td>
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<td>EH 424 African-American Special Topics</td>
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<td>EH 446 African American Autobiography</td>
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<td>EH 447 African American Dramatic Tradition</td>
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<td>EH 448 African American Poetry Tradition</td>
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<tr>
<td>EH 466 The Slave Narrative and Its Literary Expressions</td>
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<td>EH 467 Black Women Writers</td>
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<td>EH 468 The Harlem Renaissance</td>
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**Literature pre-1800**

Select two of the following: 6

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<tr>
<td>EH 329 Literature of the Vikings</td>
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<tr>
<td>EH 376 Shakespeare</td>
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<td>EH 426 Pre-1800 Literature: Special Topics</td>
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<tr>
<td>EH 441 Literary Theory and Criticism, the Ancients to the Nineteenth Century</td>
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<tr>
<td>EH 461 American Literature, 1620 - 1820</td>
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<td>EH 469 Medieval Culture: Literature and Society</td>
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<td>EH 470 Arthurian Legend</td>
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<td>EH 471 Beowulf in Context</td>
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<td>EH 472 Introduction to Old English</td>
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<td>EH 473 Chaucer: Pilgrimage to Canterbury</td>
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<td>EH 474 English Renaissance Drama (Excluding Shakespeare)</td>
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<td>EH 475 English Renaissance Poetry and Prose</td>
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<td>EH 478 Milton</td>
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<td>EH 480 The Restoration</td>
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<td>EH 481 The Eighteenth Century: Literature and Culture</td>
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<td>EH 482 The Eighteenth Century: Theory and Interpretation</td>
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<td>EH 486 Eighteenth-Century British Novel</td>
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**Literature post-1800**

Select one of the following: 3

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<td>EH 414 Modern British and European Drama</td>
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<td>EH 416</td>
<td>Modern American Poetry</td>
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<td>EH 427</td>
<td>Post-1800 Literature: Special Topics</td>
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<td>Special Topics in Film</td>
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<td>EH 442</td>
<td>Literary Theory and Criticism, the Twentieth Century to the Present</td>
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<td>Women's Literature and Theory</td>
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<td>American Literature, 1820 - 1870</td>
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<td>American Literature, 1870 - 1914</td>
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<td>American Literature, 1914 - 1945</td>
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<td>American Literature, 1945-Present</td>
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<td>EH 468</td>
<td>The Harlem Renaissance</td>
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<td>EH 488</td>
<td>British Novel: The Modern Age</td>
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<tr>
<td>EH 489</td>
<td>James Joyce</td>
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</table>

**Professional Writing**

Select one of the following: 3

- EH 304 Editing in Professional Contexts
- EH 315 Introduction to Professional Writing
- EH 340 Developing Digital Documents
- EH 403 Business Writing
- EH 404 Technical Writing
- EH 455 Digital Publishing

**Study of English as a Language**

Select one of the following: 3

- EH/LING 350 Introduction to Linguistics
- EH/LING 351 Structure of English
- EH/LING 352 The Structure of English Words
- EH/LING 355 Introduction to Sociolinguistics
- EH/LING 356 Semantics
- EH/LING 360 Phonology
- EH/LING 393 Special Topics in Linguistics
- EH/LING 450 Advanced Grammar
- EH/LING 451 Generative Grammar
- EH/LING 452 Grammar and Usage for English Teachers
- EH 453 History of the English Language
- EH/LING 454 The Biology of Language
- EH/LING 493 Special Topics in Linguistics

**English Electives**

Select four of the following: 12

- EH 203 Writing in Birmingham
- EH 205 Introduction to Creative Writing
- EH 210 Interpreting Film
- EH 214 Introduction to Literature: Special Topics
- EH 302 Intermediate Writing
- EH 303 Advanced Composition
- EH 304 Editing in Professional Contexts
- EH 305 Beginning Poetry Writing Workshop
- EH 306 Beginning Poetry Writing Workshop
- EH 307 Beginning Creative Nonfiction Writing Workshop
- EH 308 Beginning Creative Nonfiction Writing Workshop
- EH 309 Beginning Fiction Writing Workshop
- EH 310 Beginning Fiction Writing Workshop
- EH 311 English Internship
- EH 315 Introduction to Professional Writing
- EH 318 Science Fiction
- EH 324 African-American Special Topics
- EH 326 Pre-1800 Literature: Special Topics
- EH 327 Post-1800 Literature: Special Topics
- EH 328 English Elective: Special Topics
- EH 329 Literature of the Vikings
- EH 330 Professional Writing: Special Topics
- EH 332 Public Discourse: Special Topics
- EH 339 Twentieth Century Theater
- EH 340 Developing Digital Documents
- EH 350 Introduction to Linguistics
- EH 351 Structure of English
- EH 352 The Structure of English Words
- EH 355 Introduction to Sociolinguistics
- EH 356 Semantics
- EH 360 Phonology
- EH 365 African American Literature, 1746-1954
- EH 366 African American Literature, 1954-Present
- EH 367 Southern Literature
- EH 369 The American Dream
- EH 376 Shakespeare
- EH 389 Bible as Literature
- EH 393 Special Topics in Linguistics
- EH 401 Tutoring Writing
- EH 402 Writing in Popular Periodicals
- EH 403 Business Writing
- EH 404 Technical Writing
- EH 405 Poetry Writing Workshop (Seminar)
- EH 406 Poetry Writing Workshop (Seminar)
- EH 407 Creative Nonfiction Writing Workshop (Seminar)
- EH 408 Creative Nonfiction Writing Workshop (Seminar)
- EH 409 Fiction Writing Workshop (Seminar)
- EH 410 Fiction Writing Workshop (Seminar)
- EH 411 Capstone Internship
- EH 412 Forms of Poetry
- EH 413 Forms of Creative Nonfiction
- EH 414 Modern British and European Drama
- EH 415 Forms of Fiction
- EH 416 Modern American Poetry
- EH 419 Young Adult Literature
- EH 420 World Literature
- EH 421 World Literature
- EH 422 African Literature
- EH 423 African Women's Literature
- EH 424 African-American Special Topics
- EH 426 Pre-1800 Literature: Special Topics
- EH 427 Post-1800 Literature: Special Topics
- EH 428 English Elective: Special Topics
EH 429  Creative Writing: Special Topics
EH 430  Professional Writing: Special Topics
EH 431  Special Topics in Film
EH 432  Public Discourse: Special Topics
EH 433  Academic Writing
EH 435  Teaching Creative Writing
EH 436  Workshop in Writing for Young People
EH 437  Workshop in Writing for Young People
EH 441  Literary Theory and Criticism, the Ancients to the Nineteenth Century
EH 442  Literary Theory and Criticism, the Twentieth Century to the Present
EH 443  Archetype and Myth
EH 444  Women's Literature and Theory
EH 446  African American Autobiography
EH 447  African American Dramatic Tradition
EH 448  African American Poetry Tradition
EH 450  Advanced Grammar
EH 451  Generative Grammar
EH 452  Grammar and Usage for English Teachers
EH 453  History of the English Language
EH 454  The Biology of Language
EH 455  Digital Publishing
EH 456  Visual Rhetoric
EH 457  Writing and Medicine
EH 459  Discourse Analysis
EH 460  American Women Writers Before 1900
EH 461  American Literature, 1620 - 1820
EH 462  American Literature, 1820 - 1870
EH 463  American Literature, 1870 - 1914
EH 464  American Literature, 1914 - 1945
EH 465  American Literature, 1945-Present
EH 466  The Slave Narrative and Its Literary Expressions
EH 467  Black Women Writers
EH 468  The Harlem Renaissance
EH 469  Medieval Culture: Literature and Society
EH 470  Arthurian Legend
EH 471  Beowulf in Context
EH 472  Introduction to Old English
EH 473  Chaucer: Pilgrimage to Canterbury
EH 474  English Renaissance Drama (Excluding Shakespeare)
EH 475  English Renaissance Poetry and Prose
EH 476  Shakespeare
EH 478  Milton
EH 480  The Restoration
EH 481  The Eighteenth Century: Literature and Culture
EH 482  The Eighteenth Century: Theory and Interpretation
EH 483  British Romanticism
EH 485  British Victorian Poetry
EH 486  Eighteenth-Century British Novel
EH 487  Nineteenth-Century British Novel
EH 488  British Novel: The Modern Age
EH 489  James Joyce
EH 493  Special Topics in Linguistics
EH 494  English Honors Research
EH 495  Honors Capstone Thesis
EH 496  Capstone Seminar
EH 497  Individual Studies
EDR 441  Literature for Adolescents

**Capstone**<sup>2</sup>

Select one of the following: 3

- EH 411  Capstone Internship
- EH 495  Honors Capstone Thesis
- EH 496  Capstone Seminar

**Total Hours** 42

1. Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.
2. EH 411 and EH 495 must be approved. This requirement should be satisfied in the student’s final year.
   - Students majoring in English must achieve a grade of C or higher in all courses applied toward the major requirement.
   - Fifteen semester hours of English courses at the 300 and 400 levels must be taken at UAB.
   - Eighteen semester hours of English courses must be at the 400 level.
   - A single course may not count toward more than one departmental requirement.

### Major Requirements for English with a Concentration in Creative Writing

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>EH 301  Reading, Writing, and Research for English Majors</td>
<td>3</td>
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<tr>
<td><strong>World, British, &amp; Irish, or American Literature Survey</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
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<tr>
<td>Select one of the following two course sequences:</td>
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<tr>
<td>- EH 217  World Literature I: Before 1660 &amp; EH 218  and World Literature II:</td>
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<td>- EH 221  British and Irish Literature I: Before 1800 &amp; EH 222  and British</td>
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<td>and Irish Literature II: 1800-Present</td>
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<tr>
<td>- EH 223  American Literature I: Before 1865 &amp; EH 224  and American Literature</td>
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<td>II: 1865-Present</td>
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<td><strong>African, African American, or African Diasporic Literature</strong></td>
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<td>- EH 365  African American Literature, 1746-1954</td>
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<td>- EH 366  African American Literature, 1954-Present</td>
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<td>- EH 422  African Literature</td>
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<td>- EH 423  African Women's Literature</td>
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<td>- EH 424  African-American Special Topics</td>
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<td>- EH 468  The Harlem Renaissance</td>
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<td><strong>Literature Pre-1800</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>- EH 329  Literature of the Vikings</td>
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<td>- EH 376  Shakespeare</td>
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<td>Medieval Culture: Literature and Society</td>
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<td>The Restoration</td>
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<td><strong>EH 481</strong></td>
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**Literature Post-1800**

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<td>African American Literature, 1954-Present</td>
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<td>Modern British and European Drama</td>
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<td><strong>EH 427</strong></td>
<td>Post-1800 Literature: Special Topics</td>
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<td><strong>EH 431</strong></td>
<td>Special Topics in Film</td>
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<td>Literary Theory and Criticism, the Twentieth Century to the Present</td>
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<td>Women's Literature and Theory</td>
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<td><strong>EH 466</strong></td>
<td>The Slave Narrative and Its Literary Expressions</td>
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<td>British Novel: The Modern Age</td>
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<td><strong>EH 489</strong></td>
<td>James Joyce</td>
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**Professional Writing**

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<td><strong>EH 315</strong></td>
<td>Introduction to Professional Writing</td>
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<tr>
<td><strong>EH 340</strong></td>
<td>Developing Digital Documents</td>
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<tr>
<td><strong>EH 403</strong></td>
<td>Business Writing</td>
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<td><strong>EH 404</strong></td>
<td>Technical Writing</td>
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<tr>
<td><strong>EH 455</strong></td>
<td>Digital Publishing</td>
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**Study of English as a Language**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EH/LING 350</strong></td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td><strong>EH/LING 351</strong></td>
<td>Structure of English</td>
</tr>
<tr>
<td><strong>EH/LING 352</strong></td>
<td>The Structure of English Words</td>
</tr>
<tr>
<td><strong>EH/LING 355</strong></td>
<td>Introduction to Sociolinguistics</td>
</tr>
</tbody>
</table>

**Beginning Creative Writing Genre Workshops** 3

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td><strong>EH 205</strong></td>
<td>Introduction to Creative Writing</td>
</tr>
<tr>
<td><strong>EH 305</strong></td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 306</strong></td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 307</strong></td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 308</strong></td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 309</strong></td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
</tbody>
</table>

**Advanced Creative Writing Genre Workshops**

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td><strong>EH 405</strong></td>
<td>Poetry Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 406</strong></td>
<td>Poetry Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 407</strong></td>
<td>Creative Nonfiction Writing Workshop (Seminar)</td>
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<tr>
<td><strong>EH 408</strong></td>
<td>Creative Nonfiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 409</strong></td>
<td>Fiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 410</strong></td>
<td>Fiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 412</strong></td>
<td>Forms of Poetry</td>
</tr>
<tr>
<td><strong>EH 413</strong></td>
<td>Forms of Creative Nonfiction</td>
</tr>
<tr>
<td><strong>EH 415</strong></td>
<td>Forms of Fiction</td>
</tr>
<tr>
<td><strong>EH 429</strong></td>
<td>Creative Writing: Special Topics</td>
</tr>
<tr>
<td><strong>EH 436</strong></td>
<td>Workshop in Writing for Young People</td>
</tr>
<tr>
<td><strong>EH 437</strong></td>
<td>Workshop in Writing for Young People</td>
</tr>
</tbody>
</table>

**Creative Writing Elective**

Select one of the following: 3

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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td><strong>EH 205</strong></td>
<td>Introduction to Creative Writing</td>
</tr>
<tr>
<td><strong>EH 305</strong></td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 306</strong></td>
<td>Beginning Poetry Writing Workshop</td>
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<tr>
<td><strong>EH 307</strong></td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
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<tr>
<td><strong>EH 308</strong></td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 309</strong></td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 310</strong></td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
<tr>
<td><strong>EH 405</strong></td>
<td>Poetry Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 406</strong></td>
<td>Poetry Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 407</strong></td>
<td>Creative Nonfiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 408</strong></td>
<td>Creative Nonfiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 409</strong></td>
<td>Fiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 410</strong></td>
<td>Fiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td><strong>EH 429</strong></td>
<td>Creative Writing: Special Topics</td>
</tr>
<tr>
<td><strong>EH 436</strong></td>
<td>Workshop in Writing for Young People</td>
</tr>
</tbody>
</table>
**Department of English**

**Major Requirements for English with Concentration in Linguistics**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>EH 301 Reading, Writing, and Research for English Majors</td>
<td>3</td>
</tr>
<tr>
<td>EH/LING 350 Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>World, British, &amp; Irish or American Literature Survey</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>6</td>
</tr>
<tr>
<td>Select one of the following two course sequences:</td>
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</tr>
<tr>
<td>EH 217 World Literature I: Before 1660</td>
<td></td>
</tr>
<tr>
<td>&amp; EH 218 and World Literature II: 1660-Present</td>
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</tr>
<tr>
<td>EH 221 British and Irish Literature I: Before 1800</td>
<td></td>
</tr>
<tr>
<td>&amp; EH 222 and British and Irish Literature II: 1800-Present</td>
<td></td>
</tr>
<tr>
<td>EH 223 American Literature I: Before 1865</td>
<td></td>
</tr>
<tr>
<td>&amp; EH 224 and American Literature II: 1865-Present</td>
<td></td>
</tr>
<tr>
<td><strong>African, African American, or African Diasporic Literature</strong></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>EH 324 African-American Special Topics</td>
<td></td>
</tr>
<tr>
<td>EH 365 African American Literature, 1746-1954</td>
<td></td>
</tr>
<tr>
<td>EH 366 African American Literature, 1954-Present</td>
<td></td>
</tr>
<tr>
<td>EH 422 African Literature</td>
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<tr>
<td>EH 423 African Women's Literature</td>
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</tr>
<tr>
<td>EH 424 African-American Special Topics</td>
<td></td>
</tr>
<tr>
<td>EH 446 African American Autobiography</td>
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<tr>
<td>EH 447 African American Dramatic Tradition</td>
<td></td>
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<tr>
<td>EH 448 African American Poetry Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 466 The Slave Narrative and Its Literary Expressions</td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup> Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.

<sup>2</sup> All Creative Writing students are encouraged to take EH 376, Shakespeare, or EH 476, Shakespeare.

<sup>3</sup> Students may petition the Director of Creative Writing to allow one relevant course in English or a related discipline to count toward this requirement. Examples include, but are not limited to, EH 311, English Internship; THR 215, Playwriting I; and THR 216, Screenwriting I.

<sup>4</sup> Both EH 411, Capstone Internship, and EH 495, Honors Capstone Thesis, must be approved. Students should complete this requirement in their final year.

- Students majoring in English must achieve a grade of C or higher in all courses applied toward the major requirement.
- Fifteen semester hours of English courses at the 300 and 400 levels must be taken at UAB.
- Eighteen semester hours of English courses must be at the 400 level.
- A single course may not count toward more than one departmental requirement.
Select four of the following: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH/LING 351</td>
<td>Structure of English</td>
</tr>
<tr>
<td>EH/LING 352</td>
<td>The Structure of English Words</td>
</tr>
<tr>
<td>EH/LING 355</td>
<td>Introduction to Sociolinguistics</td>
</tr>
<tr>
<td>EH/LING 356</td>
<td>Semantics</td>
</tr>
<tr>
<td>EH/LING 360</td>
<td>Phonology</td>
</tr>
<tr>
<td>EH/LING 393</td>
<td>Special Topics in Linguistics</td>
</tr>
<tr>
<td>EH/LING 450</td>
<td>Advanced Grammar</td>
</tr>
<tr>
<td>EH/LING 451</td>
<td>Generative Grammar</td>
</tr>
<tr>
<td>EH/LING 452</td>
<td>Grammar and Usage for English Teachers</td>
</tr>
<tr>
<td>EH/LING 453</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>EH/LING 454</td>
<td>The Biology of Language</td>
</tr>
<tr>
<td>EH/LING 493</td>
<td>Special Topics in Linguistics</td>
</tr>
</tbody>
</table>

English Electives
Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EH 203</td>
<td>Writing in Birmingham</td>
</tr>
<tr>
<td>EH 205</td>
<td>Introduction to Creative Writing</td>
</tr>
<tr>
<td>EH 210</td>
<td>Interpreting Film</td>
</tr>
<tr>
<td>EH 214</td>
<td>Introduction to Literature: Special Topics</td>
</tr>
<tr>
<td>EH 302</td>
<td>Intermediate Writing</td>
</tr>
<tr>
<td>EH 303</td>
<td>Advanced Composition</td>
</tr>
<tr>
<td>EH 304</td>
<td>Editing in Professional Contexts</td>
</tr>
<tr>
<td>EH 305</td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td>EH 306</td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td>EH 307</td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td>EH 308</td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td>EH 309</td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
<tr>
<td>EH 310</td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
<tr>
<td>EH 315</td>
<td>Introduction to Professional Writing</td>
</tr>
<tr>
<td>EH 318</td>
<td>Science Fiction</td>
</tr>
<tr>
<td>EH 324</td>
<td>African-American Special Topics</td>
</tr>
<tr>
<td>EH 326</td>
<td>Pre-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 327</td>
<td>Post-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 328</td>
<td>English Elective: Special Topics</td>
</tr>
<tr>
<td>EH 329</td>
<td>Literature of the Vikings</td>
</tr>
<tr>
<td>EH 330</td>
<td>Professional Writing: Special Topics</td>
</tr>
<tr>
<td>EH 332</td>
<td>Public Discourse: Special Topics</td>
</tr>
<tr>
<td>EH 339</td>
<td>Twentieth Century Theater</td>
</tr>
<tr>
<td>EH 340</td>
<td>Developing Digital Documents</td>
</tr>
<tr>
<td>EH 350</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>EH 351</td>
<td>Structure of English</td>
</tr>
<tr>
<td>EH 352</td>
<td>The Structure of English Words</td>
</tr>
<tr>
<td>EH 355</td>
<td>Introduction to Sociolinguistics</td>
</tr>
<tr>
<td>EH 356</td>
<td>Semantics</td>
</tr>
<tr>
<td>EH 360</td>
<td>Phonology</td>
</tr>
<tr>
<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
</tr>
<tr>
<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
</tr>
</tbody>
</table>
Major Requirements for English with Concentration in Professional Writing

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
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</tr>
<tr>
<td><strong>World, British &amp; Irish, or American Literature Survey</strong> ¹</td>
<td></td>
</tr>
<tr>
<td>Select one of the following two course sequences:</td>
<td>6</td>
</tr>
<tr>
<td>EH 217 &amp; EH 218</td>
<td>World Literature I: Before 1660 &amp; World Literature II: 1660-Present</td>
</tr>
<tr>
<td>EH 221 &amp; EH 222</td>
<td>British and Irish Literature I: Before 1800 &amp; British and Irish Literature II: 1800-Present</td>
</tr>
<tr>
<td>EH 223 &amp; EH 224</td>
<td>American Literature I: Before 1865 &amp; American Literature II: 1865-Present</td>
</tr>
<tr>
<td><strong>African, African American, or African Diasporic Literature</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>EH 324</td>
<td>African-American Special Topics</td>
</tr>
<tr>
<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
</tr>
<tr>
<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
</tr>
<tr>
<td>EH 422</td>
<td>African Literature</td>
</tr>
<tr>
<td>EH 423</td>
<td>African Women's Literature</td>
</tr>
<tr>
<td>EH 424</td>
<td>African-American Special Topics</td>
</tr>
<tr>
<td>EH 446</td>
<td>African American Autobiography</td>
</tr>
<tr>
<td>EH 447</td>
<td>African American Dramatic Tradition</td>
</tr>
<tr>
<td>EH 448</td>
<td>African American Poetry Tradition</td>
</tr>
<tr>
<td>EH 466</td>
<td>The Slave Narrative and Its Literary Expressions</td>
</tr>
<tr>
<td>EH 467</td>
<td>Black Women Writers</td>
</tr>
<tr>
<td>EH 468</td>
<td>The Harlem Renaissance</td>
</tr>
<tr>
<td><strong>Literature pre-1800</strong></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>EH 326</td>
<td>Pre-1800 Literature: Special Topics</td>
</tr>
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<td>EH 329</td>
<td>Literature of the Vikings</td>
</tr>
<tr>
<td>EH 376</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>EH 426</td>
<td>Pre-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 441</td>
<td>Literary Theory and Criticism, the Ancients to the Nineteenth Century</td>
</tr>
<tr>
<td>EH 461</td>
<td>American Literature, 1620 - 1820</td>
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<tr>
<td>EH 469</td>
<td>Medieval Culture: Literature and Society</td>
</tr>
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<td>EH 470</td>
<td>Arthurian Legend</td>
</tr>
<tr>
<td>EH 471</td>
<td>Beowulf in Context</td>
</tr>
<tr>
<td>EH 472</td>
<td>Introduction to Old English</td>
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<tr>
<td>EH 473</td>
<td>Chaucer: Pilgrimage to Canterbury</td>
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<td>EH 474</td>
<td>English Renaissance Drama (Excluding Shakespeare)</td>
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<td>EH 475</td>
<td>English Renaissance Poetry and Prose</td>
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<td>EH 476</td>
<td>Shakespeare</td>
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<td>EH 478</td>
<td>Milton</td>
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<td>EH 480</td>
<td>The Restoration</td>
</tr>
<tr>
<td>EH 481</td>
<td>The Eighteenth Century: Literature and Culture</td>
</tr>
<tr>
<td>EH 482</td>
<td>The Eighteenth Century: Theory and Interpretation</td>
</tr>
<tr>
<td>EH 483</td>
<td>British Romanticism</td>
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<tr>
<td>EH 485</td>
<td>British Victorian Poetry</td>
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<td>EH 486</td>
<td>Eighteenth-Century British Novel</td>
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<td>EH 487</td>
<td>Nineteenth-Century British Novel</td>
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<td>EH 488</td>
<td>British Novel: The Modern Age</td>
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<tr>
<td>EH 489</td>
<td>James Joyce</td>
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<td>EH 493</td>
<td>Special Topics in Linguistics</td>
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<td>EH 494</td>
<td>English Honors Research</td>
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<tr>
<td>EH 495</td>
<td>Honors Capstone Thesis</td>
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<td>EH 496</td>
<td>Capstone Seminar</td>
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<td>EDR 441</td>
<td>Literature for Adolescents</td>
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<td><strong>Capstone</strong> ³</td>
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<td>Select one of the following:</td>
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<tr>
<td>EH 411</td>
<td>Capstone Internship</td>
</tr>
<tr>
<td>EH 495</td>
<td>Honors Capstone Thesis</td>
</tr>
<tr>
<td>EH 496</td>
<td>Capstone Seminar</td>
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<td><strong>Total Hours</strong></td>
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</table>

¹ Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.

² Note that students may petition the Program Director to have one relevant, non-Linguistics course in English or another discipline count toward this requirement.

³ EH 411 and EH 495 must be approved. This requirement should be fulfilled in the student's final year.

- Students majoring in English must achieve a grade of C or higher in all courses applied toward the major requirement.
- Fifteen semester hours of English courses at the 300 and 400 levels must be taken at UAB.
- Eighteen semester hours of English courses must be at the 400 level.
- A single course may not count toward more than one departmental requirement.
EH 416  Modern American Poetry
EH 427  Post-1800 Literature: Special Topics
EH 431  Special Topics in Film
EH 442  Literary Theory and Criticism, the Twentieth Century to the Present
EH 444  Women's Literature and Theory
EH 462  American Literature, 1820 - 1870
EH 463  American Literature, 1870 - 1914
EH 464  American Literature, 1914 - 1945
EH 465  American Literature, 1945-Present
EH 466  The Slave Narrative and Its Literary Expressions
EH 468  The Harlem Renaissance
EH 483  British Romanticism
EH 485  British Victorian Poetry
EH 487  Nineteenth-Century British Novel
EH 488  British Novel: The Modern Age
EH 489  James Joyce

**Study of English as a Language**

Select one of the following: 3

- EH/LING 350  Introduction to Linguistics
- EH/LING 351  Structure of English
- EH/LING 352  The Structure of English Words
- EH/LING 355  Introduction to Sociolinguistics
- EH/LING 356  Semantics
- EH/LING 360  Phonology
- EH/LING 393  Special Topics in Linguistics
- EH/LING 450  Advanced Grammar
- EH/LING 451  Generative Grammar
- EH/LING 452  Grammar and Usage for English Teachers
- EH/LING 453  History of the English Language
- EH/LING 454  The Biology of Language
- EH/LING 493  Special Topics in Linguistics

**Required Course in Professional Writing** 3

- EH 315  Introduction to Professional Writing

**Professional Writing Electives** 5

Select five of the following: 15

- EH 203  Writing in Birmingham
- EH 302  Intermediate Writing
- EH 303  Advanced Composition
- EH 304  Editing in Professional Contexts
- EH 311  English Internship
- EH 330  Professional Writing: Special Topics
- EH 332  Public Discourse: Special Topics
- EH 340  Developing Digital Documents
- EH 401  Tutoring Writing
- EH 402  Writing in Popular Periodicals

**Capstone** 3

Select one of the following: 3

- EH 411  Capstone Internship
- EH 495  Honors Capstone Thesis
- EH 496  Capstone Seminar

**Total Hours** 42

1. Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.
2. Students may petition the Director of Professional Writing to have one relevant course in English or another discipline count toward this requirement.
3. EH 411 and EH 495 must be approved. This requirement should be satisfied in the student’s final year.

- Students majoring in English must achieve a grade of C or higher in all courses applied toward the major requirement.
- Fifteen semester hours of English courses at the 300 and 400 levels must be taken at UAB.
- Eighteen semester hours of English courses must be at the 400 level.
- A single course may not count toward more than one departmental requirement.

**Proposed Program of Study for a Major in English with a Concentration in Literature**

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First course in literature sequence (EH 217, 221, or 223)</td>
<td>3</td>
<td>Second course in literature sequence (EH 218, 222, or 224)</td>
<td>3</td>
</tr>
<tr>
<td>EH 301</td>
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</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Junior</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
</tr>
<tr>
<td>African, African-American, African Diasporic Literature</td>
<td>3</td>
<td>English as a Language</td>
<td>3</td>
</tr>
<tr>
<td>Literature pre-1800</td>
<td>3</td>
<td>Literature pre-1800 (not previously taken)</td>
<td>3</td>
</tr>
<tr>
<td>Professional Writing</td>
<td>3</td>
<td>Literature post-1800</td>
<td>3</td>
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<td></td>
<td>9</td>
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<tr>
<td><strong>Senior</strong></td>
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<td></td>
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</tr>
<tr>
<td>First Term</td>
<td>Hours</td>
<td>Second Term</td>
<td>Hours</td>
</tr>
<tr>
<td>English Electives</td>
<td>9</td>
<td>English Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
Proposed Program of Study for a Major in English with a Concentration in Creative Writing

Sophomore
First Term
Hours Second Term Hours
First course in literature sequence (EH 217, 221, or 223) 3 Second course in literature sequence (EH 218, 222, or 224) 3
EH 301 3

Junior
First Term
Hours Second Term Hours
African, African-American or African-Diasporic Literature 3 Professional Writing 3

Senior
First Term
Hours Second Term Hours
Literature post-1800 3 Advanced Creative Writing Workshop 3
Capstone 1 3

Total credit hours: 42

1 Capstone: EH 411, EH 495 or EH 496. This requirement should be satisfied in the student's final year.

Please Note: EH 411 and EH 495 require approval.

Proposed Program of Study for a Major in English with a Concentration in Professional Writing

Sophomore
First Term
Hours Second Term Hours
First course in literature sequence (EH 217, 221, or 223) 3 Second course in literature sequence (EH 218, 222, or 224) 3
EH 301 3
EH 350 3

Junior
First Term
Hours Second Term Hours
African, African-American or African-Diasporic Literature 3 Literature post-1800 3

Senior
First Term
Hours Second Term Hours
Professional Writing Electives 6 Professional Writing Elective 3
Capstone 1 3

Total credit hours: 42

1 Capstone: EH 411, EH 495 or EH 496. This requirement should be satisfied in the student's final year.

Please Note: EH 411 and EH 495 require approval.

Proposed Program of Study for a Major in English with a Concentration in Linguistics

Sophomore
First Term
Hours Second Term Hours
First course in literature sequence (EH 217, 221, or 223) 3 Second course in literature sequence (EH 218, 222, or 224) 3
EH 301 3
EH 350 3

Junior
First Term
Hours Second Term Hours
African, African-American or African-Diasporic Literature 3 Literature post-1800 3

Minor Requirements for English Literature

Requirements Hours
Required Courses 1
EH 301 Reading, Writing, and Research for English Majors 3
### Literature Pre-1800

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EH 326</td>
<td>Pre-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 329</td>
<td>Literature of the Vikings</td>
</tr>
<tr>
<td>EH 376</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>EH 426</td>
<td>Pre-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 441</td>
<td>Literary Theory and Criticism, the Ancients to the Nineteenth Century</td>
</tr>
<tr>
<td>EH 461</td>
<td>American Literature, 1620 - 1820</td>
</tr>
<tr>
<td>EH 469</td>
<td>Medieval Culture: Literature and Society</td>
</tr>
<tr>
<td>EH 470</td>
<td>Arthurian Legend</td>
</tr>
<tr>
<td>EH 471</td>
<td>Beowulf in Context</td>
</tr>
<tr>
<td>EH 472</td>
<td>Introduction to Old English</td>
</tr>
<tr>
<td>EH 473</td>
<td>Chaucer: Pilgrimage to Canterbury</td>
</tr>
<tr>
<td>EH 474</td>
<td>English Renaissance Drama (Excluding Shakespeare)</td>
</tr>
<tr>
<td>EH 475</td>
<td>English Renaissance Poetry and Prose</td>
</tr>
<tr>
<td>EH 476</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>EH 478</td>
<td>Milton</td>
</tr>
<tr>
<td>EH 480</td>
<td>The Restoration</td>
</tr>
<tr>
<td>EH 481</td>
<td>The Eighteenth Century: Literature and Culture</td>
</tr>
<tr>
<td>EH 482</td>
<td>The Eighteenth Century: Theory and Interpretation</td>
</tr>
<tr>
<td>EH 486</td>
<td>Eighteenth-Century British Novel</td>
</tr>
</tbody>
</table>

### Literature Post-1800

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 327</td>
<td>Post-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 339</td>
<td>Twentieth Century Theater</td>
</tr>
<tr>
<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
</tr>
<tr>
<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
</tr>
<tr>
<td>EH 414</td>
<td>Modern British and European Drama</td>
</tr>
<tr>
<td>EH 416</td>
<td>Modern American Poetry</td>
</tr>
<tr>
<td>EH 427</td>
<td>Post-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 431</td>
<td>Special Topics in Film</td>
</tr>
<tr>
<td>EH 442</td>
<td>Literary Theory and Criticism, the Twentieth Century to the Present</td>
</tr>
<tr>
<td>EH 444</td>
<td>Women's Literature and Theory</td>
</tr>
<tr>
<td>EH 462</td>
<td>American Literature, 1820 - 1870</td>
</tr>
<tr>
<td>EH 463</td>
<td>American Literature, 1870 - 1914</td>
</tr>
<tr>
<td>EH 464</td>
<td>American Literature, 1914 - 1945</td>
</tr>
<tr>
<td>EH 465</td>
<td>American Literature, 1945-Present</td>
</tr>
<tr>
<td>EH 466</td>
<td>The Slave Narrative and Its Literary Expressions</td>
</tr>
<tr>
<td>EH 468</td>
<td>The Harlem Renaissance</td>
</tr>
<tr>
<td>EH 483</td>
<td>British Romanticism</td>
</tr>
<tr>
<td>EH 485</td>
<td>British Victorian Poetry</td>
</tr>
<tr>
<td>EH 487</td>
<td>Nineteenth-Century British Novel</td>
</tr>
<tr>
<td>EH 488</td>
<td>British Novel: The Modern Age</td>
</tr>
<tr>
<td>EH 489</td>
<td>James Joyce</td>
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</table>

### English Electives 2

Select three of the following: 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EH 203</td>
<td>Writing in Birmingham</td>
</tr>
<tr>
<td>EH 205</td>
<td>Introduction to Creative Writing</td>
</tr>
<tr>
<td>EH 210</td>
<td>Interpreting Film</td>
</tr>
<tr>
<td>EH 214</td>
<td>Introduction to Literature: Special Topics</td>
</tr>
<tr>
<td>EH 302</td>
<td>Intermediate Writing</td>
</tr>
<tr>
<td>EH 303</td>
<td>Advanced Composition</td>
</tr>
<tr>
<td>EH 304</td>
<td>Editing in Professional Contexts</td>
</tr>
<tr>
<td>EH 305</td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td>EH 306</td>
<td>Beginning Poetry Writing Workshop</td>
</tr>
<tr>
<td>EH 307</td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td>EH 308</td>
<td>Beginning Creative Nonfiction Writing Workshop</td>
</tr>
<tr>
<td>EH 309</td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
<tr>
<td>EH 310</td>
<td>Beginning Fiction Writing Workshop</td>
</tr>
<tr>
<td>EH 315</td>
<td>Introduction to Professional Writing</td>
</tr>
<tr>
<td>EH 318</td>
<td>Science Fiction</td>
</tr>
<tr>
<td>EH 324</td>
<td>African-American Special Topics</td>
</tr>
<tr>
<td>EH 326</td>
<td>Pre-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 327</td>
<td>Post-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 328</td>
<td>English Elective: Special Topics</td>
</tr>
<tr>
<td>EH 329</td>
<td>Literature of the Vikings</td>
</tr>
<tr>
<td>EH 330</td>
<td>Professional Writing: Special Topics</td>
</tr>
<tr>
<td>EH 332</td>
<td>Public Discourse: Special Topics</td>
</tr>
<tr>
<td>EH 333</td>
<td>Twenty-First Century Theater</td>
</tr>
<tr>
<td>EH 340</td>
<td>Developing Digital Documents</td>
</tr>
<tr>
<td>EH 350</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>EH 351</td>
<td>Structure of English</td>
</tr>
<tr>
<td>EH 352</td>
<td>The Structure of English Words</td>
</tr>
<tr>
<td>EH 355</td>
<td>Introduction to Sociolinguistics</td>
</tr>
<tr>
<td>EH 356</td>
<td>Semantics</td>
</tr>
<tr>
<td>EH 360</td>
<td>Phonology</td>
</tr>
<tr>
<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
</tr>
<tr>
<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
</tr>
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<td>EH 367</td>
<td>Southern Literature</td>
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<td>EH 369</td>
<td>The American Dream</td>
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<tr>
<td>EH 376</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>EH 389</td>
<td>Bible as Literature</td>
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<tr>
<td>EH 393</td>
<td>Special Topics in Linguistics</td>
</tr>
<tr>
<td>EH 401</td>
<td>Tutoring Writing</td>
</tr>
<tr>
<td>EH 402</td>
<td>Writing in Popular Periodicals</td>
</tr>
<tr>
<td>EH 403</td>
<td>Business Writing</td>
</tr>
<tr>
<td>EH 404</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>EH 405</td>
<td>Poetry Writing Workshop (Seminar)</td>
</tr>
<tr>
<td>EH 406</td>
<td>Poetry Writing Workshop (Seminar)</td>
</tr>
<tr>
<td>EH 407</td>
<td>Creative Nonfiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td>EH 408</td>
<td>Creative Nonfiction Writing Workshop (Seminar)</td>
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<td>EH 409</td>
<td>Fiction Writing Workshop (Seminar)</td>
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<td>EH 410</td>
<td>Fiction Writing Workshop (Seminar)</td>
</tr>
<tr>
<td>EH 411</td>
<td>Capstone Internship</td>
</tr>
<tr>
<td>EH 412</td>
<td>Forms of Poetry</td>
</tr>
<tr>
<td>EH 413</td>
<td>Forms of Creative Nonfiction</td>
</tr>
<tr>
<td>EH 414</td>
<td>Modern British and European Drama</td>
</tr>
<tr>
<td>EH 415</td>
<td>Forms of Fiction</td>
</tr>
<tr>
<td>EH 416</td>
<td>Modern American Poetry</td>
</tr>
<tr>
<td>EH 419</td>
<td>Young Adult Literature</td>
</tr>
<tr>
<td>EH 420</td>
<td>World Literature</td>
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<td>EH 421</td>
<td>World Literature</td>
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<tr>
<td>EH 422</td>
<td>African Literature</td>
</tr>
<tr>
<td>EH 423</td>
<td>African Women’s Literature</td>
</tr>
<tr>
<td>EH 424</td>
<td>African-American Special Topics</td>
</tr>
<tr>
<td>EH 426</td>
<td>Pre-1800 Literature: Special Topics</td>
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<tr>
<td>EH 427</td>
<td>Post-1800 Literature: Special Topics</td>
</tr>
<tr>
<td>EH 428</td>
<td>English Elective: Special Topics</td>
</tr>
<tr>
<td>EH 429</td>
<td>Creative Writing: Special Topics</td>
</tr>
<tr>
<td>EH 430</td>
<td>Professional Writing: Special Topics</td>
</tr>
<tr>
<td>EH 431</td>
<td>Special Topics in Film</td>
</tr>
<tr>
<td>EH 432</td>
<td>Public Discourse: Special Topics</td>
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Minor Requirements for Professional Writing

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
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Required Course

<table>
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<tr>
<td>EH 315</td>
<td>Introduction to Professional Writing</td>
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Professional Writing Electives

Select five of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>EH 203</td>
<td>Writing in Birmingham</td>
</tr>
<tr>
<td>EH 302</td>
<td>Intermediate Writing</td>
</tr>
<tr>
<td>EH 303</td>
<td>Advanced Composition</td>
</tr>
<tr>
<td>EH 304</td>
<td>Editing in Professional Contexts</td>
</tr>
<tr>
<td>EH 311</td>
<td>English Internship</td>
</tr>
<tr>
<td>EH 330</td>
<td>Professional Writing: Special Topics</td>
</tr>
<tr>
<td>EH 332</td>
<td>Public Discourse: Special Topics</td>
</tr>
<tr>
<td>EH 340</td>
<td>Developing Digital Documents</td>
</tr>
<tr>
<td>EH 401</td>
<td>Tutoring Writing</td>
</tr>
<tr>
<td>EH 402</td>
<td>Writing in Popular Periodicals</td>
</tr>
<tr>
<td>EH 403</td>
<td>Business Writing</td>
</tr>
<tr>
<td>EH 404</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>EH 411</td>
<td>Capstone Internship</td>
</tr>
<tr>
<td>EH 430</td>
<td>Professional Writing: Special Topics</td>
</tr>
<tr>
<td>EH 432</td>
<td>Public Discourse: Special Topics</td>
</tr>
<tr>
<td>EH 433</td>
<td>Academic Writing</td>
</tr>
<tr>
<td>EH 455</td>
<td>Digital Publishing</td>
</tr>
<tr>
<td>EH 456</td>
<td>Visual Rhetoric</td>
</tr>
<tr>
<td>EH 457</td>
<td>Writing and Medicine</td>
</tr>
<tr>
<td>EH 459</td>
<td>Discourse Analysis</td>
</tr>
</tbody>
</table>

Total Hours: 18

• Students minoring in English Literature must achieve a grade of C or higher in all courses applied toward the minor.
• English courses at the 300 and 400 levels must be taken at UAB.
• At least nine of the eighteen hours required for the minor must be taken at the 400 level.
• A single course may not count toward more than one departmental requirement.

Minor Requirements for Creative Writing

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
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Creative Writing Workshops

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Total Hours: 18

• Students minoring in Writing must achieve a grade of C or higher in all courses applied toward the minor.
• English courses at the 300 and 400 levels must be taken at UAB.
• At least nine of the eighteen hours required for the minor must be taken at the 400 level.
• A single course may not count toward more than one departmental requirement.
Select three of the following:  
EH 305 Beginning Poetry Writing Workshop  
EH 306 Beginning Poetry Writing Workshop  
EH 307 Beginning Creative Nonfiction Writing Workshop  
EH 308 Beginning Creative Nonfiction Writing Workshop  
EH 309 Beginning Fiction Writing Workshop  
EH 310 Beginning Fiction Writing Workshop  

Advanced Creative Writing Workshops  
Select two of the following:  
EH 405 Poetry Writing Workshop (Seminar)  
EH 406 Poetry Writing Workshop (Seminar)  
EH 407 Creative Nonfiction Writing Workshop (Seminar)  
EH 409 Fiction Writing Workshop (Seminar)  
EH 410 Fiction Writing Workshop (Seminar)  
EH 415 Forms of Fiction  
EH 429 Creative Writing: Special Topics  
EH 436 Workshop in Writing for Young People  
EH 437 Workshop in Writing for Young People  

Creative Writing Elective  
Select one of the following:  
EH 205 Introduction to Creative Writing  
EH 305 Beginning Poetry Writing Workshop  
EH 306 Beginning Poetry Writing Workshop  
EH 307 Beginning Creative Nonfiction Writing Workshop  
EH 308 Beginning Creative Nonfiction Writing Workshop  
EH 309 Beginning Fiction Writing Workshop  
EH 310 Beginning Fiction Writing Workshop  
EH 311 English Internship  
EH 405 Poetry Writing Workshop (Seminar)  
EH 406 Poetry Writing Workshop (Seminar)  
EH 407 Creative Nonfiction Writing Workshop (Seminar)  
EH 408 Creative Nonfiction Writing Workshop (Seminar)  
EH 409 Fiction Writing Workshop (Seminar)  
EH 410 Fiction Writing Workshop (Seminar)  
EH 412 Forms of Poetry  
EH 413 Forms of Creative Nonfiction  
EH 415 Forms of Fiction  
EH 429 Creative Writing: Special Topics  
EH 436 Workshop in Writing for Young People  
EH 437 Workshop in Writing for Young People  

Total Hours  

1. Students minoring in Creative Writing must achieve a grade of C or higher in all courses applied toward the minor.  
2. English courses at the 300 and 400 levels must be taken at UAB.  
3. At least six of the eighteen hours required for the minor must be taken at the 400 level.  
4. A single course may not count toward more than one departmental requirement.

Minor Requirements for Linguistics  

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
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</tr>
<tr>
<td>EH/LING 350</td>
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<tr>
<td>EH/LING 451</td>
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<tr>
<td>Linguistics Electives</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

Select four of the following:  
EH/LING 351 Structure of English  
EH/LING 352 The Structure of English Words  
EH/LING 355 Introduction to Sociolinguistics  
EH/LING 356 Semantics  
EH/LING 360 Phonology  
EH/LING 393 Special Topics in Linguistics  
EH/LING 450 Advanced Grammar  
EH/LING 452 Grammar and Usage for English Teachers  
EH/LING 453 History of the English Language  
EH/LING 454 The Biology of Language  
EH/LING 493 Special Topics in Linguistics  
LING/CS 466 Computational Linguistics  
LING/ANTH 494 Special Problems in Linguistics  
LING/ANTH 495 Special Problems in Linguistics  

Total Hours  

1. Must be approved: LING 393/EH 393, LING 493/EH 493, LING 494/ANTH 494 & LING 495/ANTH 495.  
2. Students may petition the Program Director to have one relevant non-Linguistics course in English or another discipline that does not appear on this list count toward this requirement.  
3. Students minoring in Linguistics must achieve a grade of C or higher in all courses applied toward the minor.  
4. English courses at the 300 and 400 levels must be taken at UAB.  
5. At least nine of the eighteen hours required for the minor must be taken at the 400 level.  
6. A single course may not count toward more than one departmental requirement.

Honors in English  

Purpose  

The English Honors program is designed for outstanding English majors. In their senior year, qualified students write a Senior Thesis under the supervision of an Honors Thesis Committee.

Benefits  

Benefits of participating in the Honors Program in English include individual mentoring by exceptional faculty and useful practice in undertaking extended work in the area of English, American, African American, and world literatures; creative writing; linguistics; or professional writing and rhetoric. Writing the thesis gives students the chance to work one-on-one with outstanding research faculty in all fields of English study. Our honors students thus gain valuable writing and
critical experience, personalized writing instruction, and the opportunity
to acquire especially strong letters of recommendation from committee
members. Students completing the program are recognized at the
English Department Awards Reception and will graduate from UAB “With
Honors in English” at their UAB commencement.

Eligibility
To be eligible for the Honors Program in English, a student must be
enrolled as a UAB English major, have earned a 3.5 GPA in English
courses taken and a 3.0 GPA overall, and have completed EH 301
Reading, Writing, and Research for English Majors.

Requirements
Qualified students electing to enter and complete the Honors Program in
English must do the following:

- Submit a completed English Honors Program application form to
  the Director of Departmental Honors for approval. Students must
  secure permission of the Director in order to enter the English Honors
  Program.
- Select a member of the English graduate faculty to serve as a
  faculty mentor and one other member of the English graduate faculty
  to serve with that mentor and the Director on the Honors Thesis
  Committee.
- Fill out a Senior Thesis Committee Form and give it to the Director for
  approval.
- Enroll in EH 494 English Honors Research and EH 495 Honors
  Capstone Thesis in consecutive terms.
- During EH 494 English Honors Research, write a thesis proposal and
  have it approved by the Honors Thesis Committee. Once approved, a
  copy of the proposal should be given to the Director.
- During EH 495 Honors Capstone Thesis, write the thesis under the
  committee’s guidance.
- Obtain final approval of the senior thesis from all members of the
  Honors Thesis Committee.
- Complete a final, one-hour public defense of the thesis.
- Students who earn an A in EH 495 will graduate with Departmental
  Honors. Students who earn a B or C will not graduate with
  Departmental Honors but will still fulfill the capstone requirement.

Contact
Program descriptions are available from the department website
(www.uab.edu/cas/english) or the department office.

Internships in English
The English Department, in cooperation with university-wide and off-
campus partners, offers its majors and minors internship experiences
that enhance their attractiveness to prospective employers. Many
internships have resulted in part-time or full-time employment after the
semester has concluded. Within the English department, opportunities
include assisting the editors of PMS: poemmemoirstory and Birmingham
Poetry Review. Students also intern in other parts of the university; past
collaborations have included the School of Education and UAB Health
Systems Marketing. Organizations within the Birmingham community
specializing in magazine and book publishing, non-profit fund raising,
and business communications round out possibilities for acquiring the
practical experience that will enhance students’ resumes while helping

them to build a professional portfolio demonstrating their knowledge and
skills.

English majors interested in internships should meet with Dr. Cynthia
Ryan, Director of Internships, to discuss eligibility requirements and
available internship opportunities. Students accepted for internships
enroll in either EH 311 or EH 411. EH 311 requirements include at least
the following: performance of 10-15 hours of research or publications
activities per week, as defined by the on-site supervisor, completion of
journal entries that draw on the intern’s experiences, and completion of
a written report addressing an aspect of the internship approved by Dr.
Ryan in consultation with the student. On-site supervisors also provide
written evaluations of interns, feedback that can assist students as they
pursue careers following graduation. EH 411 satisfies the Capstone
requirement for the major and involves more academic work, including
more extensive journal assignments, regular meetings with the Director
and other EH 411 students, participation in discussion sessions with
scheduled speakers, and a final professional portfolio and exit interview.
Students who wish to enroll in EH 411 should be late-term juniors or
seniors. Internships are graded classes, and final grades are based on
the student’s work ethic and written work and are determined by the
Director in consultation with the student’s on-site internship supervisor.

Eligibility and Procedures
Students must meet the following requirements to be eligible for an
English internship:

- Must be enrolled full-time as English majors or minors at UAB
- Must have a minimum overall GPA of 3.0 or higher for an off-campus
  internship or an on-campus research internship, and a 2.5 overall
  GPA or higher for a publications internship
- Must have at least junior standing or the equivalent course credits
- Must be approved for the internship by the Director of Internships
- Must be able to work the required number of hours (10-15) to fulfill
  commitments to the employer
- If awarded an internship, must enroll in EH 311 or EH 411 for the
  internship semester and—under the supervision of the Internship
  Director—must fulfill all requirements for that course.

Students who qualify for English internships should follow these
procedures:

- Make an appointment with the Director of Internships, Dr. Cynthia
  Ryan, at the beginning of the semester prior to the semester in which
  you hope to hold an internship.
- Following the meeting, complete the Internship Application Form,
  available from the Director of Internships or from
  http://www.uab.edu/cas/english/student-resources/undergraduate-
  students/internships
- Stay in contact with the Internship Director for information about
  scheduling interviews with potential employers and prepare -- with the
  assistance of the Internship Director -- for interviews.
- Once accepted by the on-site supervisor for an internship, contact the
  Internship Director to enroll in EH 311 or EH 411.

Questions:
For more information about the Internship program in English, contact Dr.
Cynthia Ryan at cynryan@uab.edu. HB211, (205) 934-8600.
Department of Foreign Languages and Literatures

Chair: Julian Arribas

The Department of Foreign Languages and Literatures offers a multifaceted foreign language program that will meet the diverse global challenges facing students of the 21st century. The Department offers programs of study leading to the degree of Bachelor of Arts in Foreign Languages with concentrations in French and Spanish. The Department offers minor programs in Chinese, French, German, Japanese, Spanish and Spanish for Business, as well as a Certificate of Spanish for Specific Purposes. There are also opportunities for students to take courses in Arabic, Italian and courses about foreign cultures and literatures in English. Additional courses in foreign languages may be taken through the Birmingham Area Consortium for Higher Education (BACHE). Promoting a comprehensive view of foreign cultures, languages and literatures enhances the students' ability to compete in the job market and/or pursue graduate or professional studies.

Our programs are rooted in diversity within and across cultures, and foster the international exchange of knowledge and information between humanities scholars, teachers and other professionals. Our instructional methods are aligned with national standards. The foreign language experience at UAB includes classroom learning, scholarship and research, experiential learning, and extracurricular opportunities.

The UAB Department of Foreign Languages and Literatures offers traditional language, culture, civilization, linguistics and literature classes and also enrolls students in such fields as literature in translation, film and cultural studies, foreign media and society, US Latino topics, applied linguistics and languages for the professions.

The Department also offers an Honors Track Program and internships in Foreign Languages to students in Spanish for Specific Purposes, and for qualified majors with Departmental approval. Furthermore, we promote and sponsor opportunities for study abroad in conjunction with UAB Education Abroad programs. UAB Distinguished Professor Emeritus of French, William C. Carter has built one of the world's largest collections of books by and about French author Marcel Proust. The collection is housed on campus in Mervyn H. Sterne Library and includes original letters and other documents.

For more information about our programs, online placement exams, internships, events and sponsored study abroad opportunities, visit the Department of Foreign Languages and Literatures web site at http://www.uab.edu/cas/languages/.

Language Placement

To assure that students taking foreign language courses are properly placed, all students must take a placement exam in the language before enrolling in foreign language classes. Students enrolling in Arabic, Chinese, Italian and Japanese will work directly with designated foreign language faculty members to ensure proper placement. Placement exams in French, Spanish, and German are available online at the Department of Foreign Languages and Literatures web site: https://www.uab.edu/cas/languages/student-resources/placement-tests. The level at which native/heritage language speakers may begin formal language study will be determined by the appropriate foreign language advisor after the student has taken the online placement exam. Exceptional native/heritage language students may apply for Credit by Examination (CBE). The College Level Examination Program (CLEP) is available in French, German, and Spanish.

Major

The Department of Foreign Languages and Literatures offers programs of study leading to the degree of Bachelor of Arts in Foreign Languages with concentrations in French and Spanish. Students who major or minor in foreign languages are encouraged to consult the Department web page to identify the appropriate departmental advisor to assist in formulating an individual program of study.

The foreign language major requires completion of the introductory sequence (Introductory French I and II or Introductory Spanish I and II) or the equivalent.

Concentration in French

The French concentration/track at UAB offers an articulated approach to the study of the French language and the culture, civilization and literature of the French-speaking world. Literacy skills and understanding (e.g., reading, writing, speaking) are developed throughout the course of study, as is the nurturing of critical and analytical skills. Majors will leave the program with the ability to engage in critical and cross-cultural analysis. Students have the opportunity to do in-depth work in special topics seminars (e.g., Advanced Grammar, French Civilization, Contemporary France, French Film, Fin-de-siècle Literature, Francophone literature and current issues.) Typically, French concentration majors have more than one major or a complement of minors to facilitate the applied aspect of language study (e.g., pre-health, education, art, anthropology, communication studies, business, criminal justice). Students graduating from UAB with a concentration in French have gone on to graduate or professional school and/or employment in such fields as business, education, government, industry, international relations, law, public health, medicine, hotel and restaurant management and publishing.

The French concentration has opportunities for community outreach activities (e.g., internships, service learning) in Alabama, and has diverse study abroad opportunities from which to choose. We work very closely with students to personalize their studying experience. We also help them to find ways to enhance their language and culture skills through unique experiences abroad (e.g., application for French government youth grants and internships, teaching exchanges).

The Department requires students to enroll in more than one language to learn about varied linguistic structures and receive a broader cross-cultural perspective.

Concentration in Spanish

The Spanish concentration/track at UAB offers an articulated approach to the study of the Spanish language and the culture, civilization and literature of the Spanish-speaking world. Literacy skills and understanding (e.g., reading, writing, speaking) are developed throughout the course of study, as well as the nurturing of critical and analytical skills. Majors will leave the program with the ability to engage in critical and cross-cultural analysis. Students have the opportunity to do in-depth work in special topics seminars like Afro-Hispanic writers, Hispanic and Latino topics, peninsular film applied linguistics, and social linguistics. Typically, Spanish concentration majors have more than one major or a complement of minors to facilitate the applied aspect of language study (e.g., pre-health, nursing, education, anthropology, communication studies, business, and international studies). Students graduating
from UAB with a concentration in Spanish have gone on to graduate or professional school and/or employment in such fields as business, education, government, industry, international relations, law, medicine, publishing, translation, and interpretation.

The Spanish concentration major has significant opportunities for community outreach activities (e.g., internships, service learning) in Alabama, and has diverse study abroad opportunities from which to choose.

The Department requires students to enroll in more than one language to learn about varied linguistic structures and receive a broader cross-cultural perspective.

Minor

Twelve semester hours at the 200 level or above are required for the minor in Chinese, French, German, Japanese, Spanish, or Business Spanish. No course in which a grade below C has been earned may be counted toward the minor requirement. The Department of Foreign Languages and Literatures strongly recommends that more than half of student course work for the minor be completed on the UAB campus. Students that transfer courses from non-UAB programs into the UAB minor programs will be examined for placement and proficiency level. At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

Foreign Language Media Services

The computer-based Foreign Language Media Services (FLMS) at UAB enables students, faculty and community users to access and utilize foreign languages and cultures in a digital environment in order to provide multi-dimensional learning and research opportunities. The FLMS plays an integral role in the activities and services of the UAB Department of Foreign Languages and Literatures and also serves as a support center for the University. The FLMS enables the UAB Department of Foreign Languages and Literatures to respond to the demand for additional language resources, the requirements for a wider range of tasks being performed in the languages, a greater number of language learners of different types and a broader array of instructional modes.

For more information about FLMS, online placement exams and internships, visit the Department of Foreign Languages and Literatures web site: http://www.uab.edu/cas/languages/.

Foreign Language Education

The Department of Foreign Languages and Literatures offers graduate foreign language classes regularly. The Department of Foreign Languages and Literatures provides content courses and collaborates on advising for graduate degrees in foreign language education. Students interested in seeking one of the graduate degrees in foreign language education should contact the UAB Department of Curriculum and Instruction (School of Education).

Concentration in French (p. 202)

Concentration in Spanish (p. 203)

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### Major Requirements for Foreign Languages (Concentration in French)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foreign Cultures</strong></td>
<td></td>
</tr>
<tr>
<td>FLL 120 Foreign Cultures ¹</td>
<td>3</td>
</tr>
<tr>
<td><strong>Additional Introductory Foreign Language Course ¹</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3-4</td>
</tr>
<tr>
<td>ARA 101 Introductory Arabic I</td>
<td></td>
</tr>
<tr>
<td>CHI 101 Introductory Chinese I</td>
<td></td>
</tr>
<tr>
<td>FLL 101 Introductory Foreign Language I</td>
<td></td>
</tr>
<tr>
<td>GN 101 Introductory German I</td>
<td></td>
</tr>
<tr>
<td>ITL 101 Introductory Italian I</td>
<td></td>
</tr>
<tr>
<td>JPA 101 Introductory Japanese I</td>
<td></td>
</tr>
<tr>
<td>POR 101 Introductory Portuguese I</td>
<td></td>
</tr>
<tr>
<td>SPA 101 Introductory Spanish I</td>
<td></td>
</tr>
<tr>
<td><strong>Foreign Cultures through Literature and Film</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>FLL 220 Foreign Literatures in English Translation</td>
<td></td>
</tr>
<tr>
<td>FLL 303 History of World Movies I: The Origins to 1960</td>
<td></td>
</tr>
<tr>
<td>FLL 304 History of World Movies II</td>
<td></td>
</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td></td>
</tr>
<tr>
<td><strong>Introduction to Linguistics</strong></td>
<td></td>
</tr>
<tr>
<td>Please select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>FLL 350 Intro to Romance Linguistics</td>
<td></td>
</tr>
<tr>
<td>EH/LING 350 Introduction to Linguistics</td>
<td></td>
</tr>
<tr>
<td><strong>Capstone: Foreign Language Seminar</strong></td>
<td></td>
</tr>
<tr>
<td>FLL 485 Foreign Language Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Study Abroad</strong></td>
<td></td>
</tr>
<tr>
<td>Select six hours from the following:</td>
<td>6</td>
</tr>
<tr>
<td>FR 290 Study Abroad</td>
<td></td>
</tr>
<tr>
<td>FR 390 Study Abroad</td>
<td></td>
</tr>
<tr>
<td>FR 490 Study Abroad: French</td>
<td></td>
</tr>
<tr>
<td>FLL 333 Foreign Language Internship/SL (This course can only satisfy the study abroad requirement with prior approval from the DFLL Chair)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>21-22</td>
</tr>
</tbody>
</table>

1. Also counts in Core Curriculum Area II: Humanities and Fine Art

### Other Requirements (Concentration in French)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>French 200-level</strong></td>
<td></td>
</tr>
<tr>
<td>Select 12 credit hours from the following courses:</td>
<td>12</td>
</tr>
<tr>
<td>FR 201 Intermediate French I</td>
<td></td>
</tr>
<tr>
<td>FR 202 Intermediate French II</td>
<td></td>
</tr>
<tr>
<td>FR 206 Intermediate Business French</td>
<td></td>
</tr>
<tr>
<td>FR 210 Intermediate French Culture</td>
<td></td>
</tr>
<tr>
<td>FR 211 Intermediate Survey of French Literature</td>
<td></td>
</tr>
<tr>
<td>FR 220 Intermediate French Composition</td>
<td></td>
</tr>
<tr>
<td>FR 230 Intermediate French Conversation</td>
<td></td>
</tr>
<tr>
<td>FR 290 Study Abroad</td>
<td></td>
</tr>
<tr>
<td><strong>French 300-level</strong></td>
<td></td>
</tr>
<tr>
<td>Select 12 credit hours from the following courses:</td>
<td>12</td>
</tr>
</tbody>
</table>

The University of Alabama at Birmingham

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 305</td>
<td>French-Speaking Cinema</td>
</tr>
<tr>
<td>FR 306</td>
<td>Business French</td>
</tr>
<tr>
<td>FR 307</td>
<td>Advanced Grammar and Composition I</td>
</tr>
<tr>
<td>FR 308</td>
<td>Advanced Grammar and Composition II</td>
</tr>
<tr>
<td>FR 310</td>
<td>Advanced French Culture</td>
</tr>
<tr>
<td>FR 311</td>
<td>Greatest Hits of French Literature</td>
</tr>
<tr>
<td>FR 320</td>
<td>Advanced French Composition</td>
</tr>
<tr>
<td>FR 330</td>
<td>Advanced French Conversation</td>
</tr>
<tr>
<td>FR 390</td>
<td>Study Abroad</td>
</tr>
<tr>
<td>FR 399</td>
<td>Special Readings in French</td>
</tr>
</tbody>
</table>

**French 400-level (Must be taken at UAB)**

Select 9 credit hours from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 401</td>
<td>Pre-Revolutionary France (1610-1789)</td>
</tr>
<tr>
<td>FR 402</td>
<td>Post-Revolutionary France (1789-1913)</td>
</tr>
<tr>
<td>FR 403</td>
<td>Fin-de-Siecle France (1895-1940)</td>
</tr>
<tr>
<td>FR 404</td>
<td>French Literature since 1940</td>
</tr>
<tr>
<td>FR 405</td>
<td>Francophone Literature</td>
</tr>
<tr>
<td>FR 410</td>
<td>Special Topics in French</td>
</tr>
<tr>
<td>FR 412</td>
<td>French Civilization: before 1789 Pre-Revolutionary</td>
</tr>
<tr>
<td>FR 413</td>
<td>French Civilization after 1789 Post-Revolutionary</td>
</tr>
<tr>
<td>FR 490</td>
<td>Study Abroad: French</td>
</tr>
<tr>
<td>FR 499</td>
<td>Directed Studies</td>
</tr>
</tbody>
</table>

**Total Hours** 33

**Grade Requirement**

No course in which a grade below C has been earned may be counted toward the major.

**Beginning Language Requirement**

To enroll in any 200-level French (FR) course, students must either complete 8 hours of 100-level French (FR) courses or complete the equivalent placement test.

**Major Requirements for Foreign Languages (Concentration in Spanish)**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Cultures</td>
<td>3</td>
</tr>
<tr>
<td>FLL 120 Foreign Cultures</td>
<td></td>
</tr>
<tr>
<td>Additional Introductory Foreign Language Course</td>
<td>3-4</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>ARA 101 Introductory Arabic I</td>
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<td>CHI 101 Introductory Chinese I</td>
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<td>GN 101 Introductory German I</td>
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<td>ITL 101 Introductory Italian I</td>
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<tr>
<td>JPA 101 Introductory Japanese I</td>
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<td></td>
</tr>
<tr>
<td>Foreign Cultures through Literature and Film</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>FLL 220 Foreign Literatures in English Translation</td>
<td></td>
</tr>
<tr>
<td>FLL 303 History of World Movies I: The Origins to 1960</td>
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</tr>
<tr>
<td>FLL 304 History of World Movies II</td>
<td></td>
</tr>
<tr>
<td>EH 218 World Literature II: 1660-Present</td>
<td></td>
</tr>
</tbody>
</table>

**Introductions to Linguistics**

Select one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 350</td>
<td>Intro to Romance Linguistics</td>
</tr>
<tr>
<td>EH/LING 350</td>
<td>Introduction to Linguistics</td>
</tr>
</tbody>
</table>

**Capstone: Foreign Language Seminar**

FLL 485 Foreign Language Capstone Seminar 3

**Study Abroad**

Select six hours of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 290</td>
<td>Study Abroad</td>
</tr>
<tr>
<td>SPA 390</td>
<td>Study Abroad</td>
</tr>
<tr>
<td>SPA 490</td>
<td>Study Abroad: Spanish</td>
</tr>
<tr>
<td>FLL 333</td>
<td>Foreign Language Internship/SL (This course can only satisfy the study abroad requirement with prior approval from the DFLL Chair)</td>
</tr>
</tbody>
</table>

**Total Hours** 21-22

1 Also counts in Core Curriculum Area II: Humanities and Fine Art

**Other Requirements (Concentration in Spanish)**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish 200-level</td>
<td>12</td>
</tr>
<tr>
<td>SPA 201 Intermediate Spanish I</td>
<td></td>
</tr>
<tr>
<td>SPA 202 Intermediate Spanish II</td>
<td></td>
</tr>
<tr>
<td>SPA 203 Intermediate Spanish Review</td>
<td></td>
</tr>
<tr>
<td>SPA 206 Intermediate Spanish for the Professions</td>
<td></td>
</tr>
<tr>
<td>SPA 210 Conversation and Culture</td>
<td></td>
</tr>
<tr>
<td>SPA 214 Introduction to Translation and Interpretation for the Professions</td>
<td></td>
</tr>
<tr>
<td>SPA 233 Intermediate Spanish Composition and Conversation</td>
<td></td>
</tr>
<tr>
<td>SPA 280 Spanish for Health Professionals</td>
<td></td>
</tr>
<tr>
<td>SPA 290 Study Abroad</td>
<td></td>
</tr>
<tr>
<td>SPA 299 Special Readings in Spanish</td>
<td></td>
</tr>
<tr>
<td>Spanish 300-level</td>
<td>12</td>
</tr>
<tr>
<td>SPA 300 Advanced Grammar and Composition</td>
<td></td>
</tr>
<tr>
<td>SPA 304 Phonetics and Phonology</td>
<td></td>
</tr>
<tr>
<td>SPA 310 Cultures of the Spanish-Speaking World</td>
<td></td>
</tr>
<tr>
<td>SPA 311 Greatest Hits of Hispanic Literature I</td>
<td></td>
</tr>
<tr>
<td>SPA 312 Greatest Hits of Hispanic Literature II</td>
<td></td>
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<tr>
<td>SPA 313 Business Spanish</td>
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<tr>
<td>SPA 314 Spanish Translation and Interpretation</td>
<td></td>
</tr>
<tr>
<td>SPA 380 Advanced Spanish for Health Profess</td>
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<tr>
<td>SPA 390 Study Abroad</td>
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</tr>
<tr>
<td>SPA 399 Special Readings in Spanish</td>
<td></td>
</tr>
<tr>
<td>Spanish 400-level</td>
<td>9</td>
</tr>
<tr>
<td>SPA 401 Voices of Imperial Spain</td>
<td></td>
</tr>
<tr>
<td>SPA 402 Voices of Colonial Latin America</td>
<td></td>
</tr>
<tr>
<td>SPA 403 Contemporary Spanish Literature and Film</td>
<td></td>
</tr>
<tr>
<td>SPA 404 Medicine and Literature in the Spanish-Speaking World</td>
<td></td>
</tr>
<tr>
<td>SPA 405 US Latino Writers</td>
<td></td>
</tr>
<tr>
<td>SPA 407 Indigenous and Indigenist Latin America</td>
<td></td>
</tr>
<tr>
<td>SPA 409 Spanish-Speaking Nobel Laureates</td>
<td></td>
</tr>
<tr>
<td>SPA 411 Cervantes and the Quixote</td>
<td></td>
</tr>
<tr>
<td>SPA 412 Voices of Contemporary Latin America 1920-Present</td>
<td></td>
</tr>
</tbody>
</table>
Proposed Program of Study for a Major in Foreign Language with a Concentration in Spanish

Freshman
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
FLL 120 | 3 | Introductory Foreign Language Course 1 | 3

Total Hours: 3

Sophomore
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
FLL 220 or EH 218 | 3 | French (200-level or above) | 6
French (200-level or above) | 6 | FLL 350 or EH 350 | 3

Total Hours: 9

Junior
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
French (300 level or above) | 6 | French (300 level or above) | 6
study abroad courses (or FLL 333) 2 | 6

Total Hours: 12

Senior
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
French (400 level) | 6 | FLL 485 | 3
French (400 level) | 6 | Spanish Course (400 level) | 3

Total Hours: 6

Total credit hours: 54

1 Student chooses an introductory language course outside his/her concentration.
2 S.A. = study abroad. Student must take six hours of study abroad (S.A.) courses (FR 290, FR 390 or FR 490). FLL 333 can only satisfy the S.A. requirement with prior approval from the DFLL Chair.
At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

| Total Hours | 20 |

**Minor Requirements for Spanish**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Language Requirement</td>
<td>8</td>
</tr>
</tbody>
</table>

To enroll in any 200-level Spanish (SPA) course, students must either complete 8 hours of 100-level Spanish (SPA) courses or complete the equivalent placement test.

No course in which a grade below C has been earned may be counted toward a minor.

| Spanish Courses | 12 |

Select 12 credit hours from 200-level, 300-level, or 400-level Spanish (SPA)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 201</td>
<td>Intermediate Spanish I</td>
</tr>
<tr>
<td>SPA 202</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td>SPA 203</td>
<td>Intermediate Spanish Review</td>
</tr>
<tr>
<td>SPA 206</td>
<td>Intermediate Spanish for the Professions</td>
</tr>
<tr>
<td>SPA 210</td>
<td>Conversation and Culture</td>
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<tr>
<td>SPA 214</td>
<td>Introduction to Translation and Interpretation for the Professions</td>
</tr>
<tr>
<td>SPA 233</td>
<td>Intermediate Spanish Composition and Conversation</td>
</tr>
<tr>
<td>SPA 280</td>
<td>Spanish for Health Professionals</td>
</tr>
<tr>
<td>SPA 290</td>
<td>Study Abroad</td>
</tr>
<tr>
<td>SPA 299</td>
<td>Special Readings in Spanish</td>
</tr>
</tbody>
</table>

At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

| Total Hours | 20 |

**Minor Requirements for German**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Language Requirement</td>
<td>8</td>
</tr>
</tbody>
</table>

To enroll in any 200-level German (GN) course, students must either complete 8 hours of 100-level German (GN) courses or complete the equivalent placement test.

No course in which a grade below C has been earned may be counted toward a minor.

| German Courses | 12 |

Select 12 credit hours from 200-level German (GN) or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 201</td>
<td>Intermediate German I</td>
</tr>
<tr>
<td>GN 202</td>
<td>Intermediate German II</td>
</tr>
<tr>
<td>GN 203</td>
<td>German Culture and Civilization</td>
</tr>
<tr>
<td>GN 204</td>
<td>Readings in German Literature</td>
</tr>
<tr>
<td>GN 205</td>
<td>German for the Professions</td>
</tr>
<tr>
<td>GN 206</td>
<td>German for Technology and Media</td>
</tr>
<tr>
<td>GN 210</td>
<td>German Culture and Civilization II</td>
</tr>
<tr>
<td>GN 290</td>
<td>Study Abroad</td>
</tr>
</tbody>
</table>

At least 6 hrs. of the credits applied toward the minor must be taken at UAB. Exceptions to this rule can be granted with the permission of the Chair.

| Total Hours | 20 |

**Minor Requirements for Japanese**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Language Requirement</td>
<td>6</td>
</tr>
</tbody>
</table>

To enroll in any 200-level Japanese (JPA) course, students must either complete 6 hours of 100-level Japanese (JPA) courses or complete the equivalent placement test.

No course in which a grade below C has been earned may be counted toward a minor.

| Japanese Courses | 12 |

Select 12 credit hours from 200-level Japanese (JPA) or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPA 201</td>
<td>Intermediate Japanese I</td>
</tr>
<tr>
<td>JPA 202</td>
<td>Intermediate Japanese II</td>
</tr>
<tr>
<td>JPA 203</td>
<td>Intermediate Japanese Language &amp; Culture I</td>
</tr>
<tr>
<td>JPA 204</td>
<td>Intermediate Japanese Language &amp; Culture II</td>
</tr>
<tr>
<td>JPA 206</td>
<td>Business Japanese</td>
</tr>
<tr>
<td>JPA 210</td>
<td>Discourse and Culture in Japanese</td>
</tr>
</tbody>
</table>

| Total Hours | 12 |
Spanish for Specific Purposes

The Department of Foreign Languages and Literatures offers a Spanish for Specific Purposes (SSP) Certificate. The certificate is built upon the existing Spanish program and course offerings with modifications and additions. The courses are designed for traditional as well as non-traditional candidates. The objective of this certificate is not only to fulfill UAB degree candidates’ academic and future needs, but also to reach out to local professionals. The courses are content-, vocabulary-, and culture-based. Students learn the vocabulary, language and cultural background that they will use in their professional field through extensive practice in class and beyond the classroom as well. Upon successful completion of the program, candidates will receive an official UAB Certificate of Completion, which will also be recorded on their transcript.

Candidates who wish to obtain a UAB Spanish for Specific Purposes Certificate must fulfill the following requirements:

1. Have the Spanish prerequisites specific to each SSP class.
2. Enter with and maintain a minimum 2.8 GPA in Spanish courses.
3. Submit an application online following the link provided below and receive formal acceptance to the SSP program.
4. Obtain a B grade or above in all SSP courses.
5. Complete a minimum of 18 credit hours of SSP classes (6 courses) in the UAB Department of Foreign Languages and Literatures, of which a minimum of 12 credits (4 courses) must be at the 300 level (SPA 304, FLL 333, and two other 300 level SPA courses).
6. Complete a successful SSP Service Learning course (FLL 333, 3 credit hours) as part of the 18 credit hour requirement.
7. Upon completion of the program, take the Oral Proficiency Interview by computer (OPIc) in Spanish and earn the performance rank of Intermediate-Mid or above.
8. Have a minimum of 12 credit hours of successful college level work (grade C or above in all courses), with the following distribution (minimum): at least 6 credit hours in Area 1 (English Composition), at least 3 credit hours in Area 2 (Arts and Humanities), at least 3 credit hours in Area 4 (Social Sciences) (non-degree-seeking candidates only).

For detailed information about the SSPC courses, registration process and procedures, a downloadable registration form and other updates, please visit our web site at http://www.uab.edu/cas/languages/

Honors in Foreign Languages

Purpose

The Foreign Languages Honors Program is designed for qualified, self-motivated foreign languages majors. Through special course distribution and credit hours requirements, as well as a directed honors thesis, students are prepared for in-depth foreign language research and related graduate or professional opportunities.

Eligibility

Acceptance into the Foreign Languages Honors Program requires the student to:

• Be a Foreign Languages major
• Have at least sophomore standing
• Have at least 6 hours at the 300-level in UAB foreign languages courses
• Have at least a 3.25 GPA in UAB foreign languages courses
• Have at least an overall 3.0 GPA
• Have submitted a Formal Application for the Foreign Languages Honors Program to the Department Chair or have been recommended to the program by a member of the department.

Requirements

• Completion of required courses for the Foreign Language major
• Submission of a formal project proposal to DFLL faculty Mentor and DFLL Chair
• Agreement and acceptance by a DFLL faculty Mentor and DFLL Chair of a research project
• Constitution of a former Honors Committee with membership that consists of the DFLL faculty Mentor and two faculty Consultants
• Registration for 3 credit hours of FLL 410
• Public Defense of the research project
• Acceptance of the completed project by the student’s Honors Committee
• Submission of an archival copy of the completed project signed by the Honors Committee to the office of the DFLL

Contact

For more information and/or admission to the Foreign Languages Honors Program, please contact:
Chair of the Department
Department of Foreign Languages and Literatures
Humanities Building 407

Department of Government

Chair: Wendy Gunther-Canada, Ph.D.

The Department of Government offers programs of study leading to the Bachelor of Arts degree in political science and the Master of Public Administration degree.

Political science is concerned with the observation and comprehension of government in human society. The curriculum in political science provides selective opportunities to study systematically and critically American government and politics, to compare various national political systems, to investigate conflict and cooperation among nation-states, to explore the historical development of political theory, analyze the organization and management of public affairs, and to master the methods of political research.

The political science major is an appropriate background for careers in law; social science teaching; state, local, and federal government; foreign diplomacy and international affairs; journalism; campaigns and electioneering; non-profit advocacy; and political research.
Major in Political Science

A grade of C or better is required in all Political Science courses. In fulfilling the requirements below, students must have 17 hours at the 300-level or above, 9 of which must be at the 400 level.

Major Requirements for Political Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science</td>
<td>2</td>
</tr>
<tr>
<td>PSC 101</td>
<td>Introduction to American Government</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Introduction to Comparative Politics</td>
</tr>
<tr>
<td>PSC 103</td>
<td>Introduction to International Relations</td>
</tr>
<tr>
<td>PSC 104</td>
<td>Introduction to Political Theory</td>
</tr>
<tr>
<td>PSC 400</td>
<td>Research in Political Science</td>
</tr>
</tbody>
</table>

Capstone

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 401</td>
<td>Seminar in American Government (capstone)</td>
</tr>
<tr>
<td>PSC 402</td>
<td>Seminar in Comparative Politics</td>
</tr>
<tr>
<td>PSC 403</td>
<td>Seminar in International Relations</td>
</tr>
<tr>
<td>PSC 404</td>
<td>Seminar in Political Theory</td>
</tr>
</tbody>
</table>

Specializations

Select 9 credit hours from one of the groups below:

<table>
<thead>
<tr>
<th>Group</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government and Political Theory</td>
<td>9</td>
</tr>
<tr>
<td>PSC 110</td>
<td>Introduction to American Public Policy</td>
</tr>
<tr>
<td>PSC 120</td>
<td>Urban Politics</td>
</tr>
<tr>
<td>PSC 170</td>
<td>Contemporary Political Issues</td>
</tr>
<tr>
<td>PSC 221</td>
<td>American State and Local Government</td>
</tr>
<tr>
<td>PSC 222</td>
<td>Introduction to Public Administration</td>
</tr>
<tr>
<td>PSC 240</td>
<td>Social and Political Philosophy</td>
</tr>
<tr>
<td>PSC 270</td>
<td>Law and Film</td>
</tr>
<tr>
<td>PSC 271</td>
<td>Contemporary Political Issues</td>
</tr>
<tr>
<td>PSC 275</td>
<td>Special Topics in Political Theory</td>
</tr>
<tr>
<td>PSC 295</td>
<td>Special Topics in Political Science</td>
</tr>
<tr>
<td>PSC 316</td>
<td>Human Rights</td>
</tr>
<tr>
<td>PSC 317</td>
<td>Religion and Politics</td>
</tr>
<tr>
<td>PSC 318</td>
<td>Politics and Race in America</td>
</tr>
<tr>
<td>PSC 319</td>
<td>Civil Liberties and Civil Rights</td>
</tr>
<tr>
<td>PSC 320</td>
<td>Political Participation</td>
</tr>
<tr>
<td>PSC 321</td>
<td>Public Opinion in American Politics</td>
</tr>
<tr>
<td>PSC 322</td>
<td>Women and Politics</td>
</tr>
<tr>
<td>PSC 330</td>
<td>The American Judicial Process</td>
</tr>
<tr>
<td>PSC 331</td>
<td>The U.S. Congress</td>
</tr>
<tr>
<td>PSC 332</td>
<td>The American Presidency</td>
</tr>
<tr>
<td>PSC 333</td>
<td>Political Parties and Interest Groups</td>
</tr>
<tr>
<td>PSC 340</td>
<td>American Political Thought</td>
</tr>
<tr>
<td>PSC 341</td>
<td>Classical Political Thought</td>
</tr>
<tr>
<td>PSC 342</td>
<td>Modern Political Theory</td>
</tr>
<tr>
<td>PSC 370</td>
<td>Politics and the Media</td>
</tr>
<tr>
<td>PSC 375</td>
<td>Special Topics in Political Theory</td>
</tr>
<tr>
<td>PSC 380</td>
<td>The Politics of Constitutional Law</td>
</tr>
<tr>
<td>PSC 381</td>
<td>The Bill of Rights</td>
</tr>
<tr>
<td>PSC 395</td>
<td>Special Topics in American Government</td>
</tr>
<tr>
<td>PSC 418</td>
<td>Politics and Race in America</td>
</tr>
<tr>
<td>PSC 422</td>
<td>Women in Politics</td>
</tr>
<tr>
<td>PSC 443</td>
<td>Digital Democracy</td>
</tr>
<tr>
<td>PSC 495</td>
<td>Directed Research in Political Science</td>
</tr>
<tr>
<td>PSC 496</td>
<td>Independent Studies and Special Projects</td>
</tr>
<tr>
<td>PSC 497</td>
<td>Honors Research in Political Science</td>
</tr>
<tr>
<td>PSC 498</td>
<td>Public Affairs Internship</td>
</tr>
<tr>
<td>Comparative Politics and International Relations</td>
<td></td>
</tr>
<tr>
<td>PSC 170</td>
<td>Contemporary Political Issues</td>
</tr>
<tr>
<td>PSC 260</td>
<td>American Foreign Policy</td>
</tr>
<tr>
<td>PSC 265</td>
<td>Special Topics in Comparative Politics</td>
</tr>
<tr>
<td>PSC 266</td>
<td>The United Nations</td>
</tr>
<tr>
<td>PSC 272</td>
<td>Model Arab League</td>
</tr>
<tr>
<td>PSC 285</td>
<td>Special Topics in International Relations</td>
</tr>
<tr>
<td>PSC 350</td>
<td>African Politics</td>
</tr>
<tr>
<td>PSC 351</td>
<td>European Political Systems</td>
</tr>
<tr>
<td>PSC 352</td>
<td>Latin/South American Political Systems</td>
</tr>
<tr>
<td>PSC 353</td>
<td>Asian Political Systems</td>
</tr>
<tr>
<td>PSC 354</td>
<td>East European Politics</td>
</tr>
<tr>
<td>PSC 355</td>
<td>Politics of Development</td>
</tr>
<tr>
<td>PSC 360</td>
<td>International Security</td>
</tr>
<tr>
<td>PSC 361</td>
<td>North/South International Relations</td>
</tr>
<tr>
<td>PSC 365</td>
<td>Special Topics in Comparative Politics</td>
</tr>
<tr>
<td>PSC 382</td>
<td>Political Networks</td>
</tr>
<tr>
<td>PSC 385</td>
<td>Special Topics in International Relations</td>
</tr>
<tr>
<td>PSC 456</td>
<td>Riots Resistance Rebellion</td>
</tr>
<tr>
<td>PSC 457</td>
<td>Human Trafficking</td>
</tr>
<tr>
<td>PSC 461</td>
<td>International Political Economy</td>
</tr>
<tr>
<td>PSC 465</td>
<td>International Law</td>
</tr>
<tr>
<td>PSC 466</td>
<td>The United Nations</td>
</tr>
<tr>
<td>PSC 471</td>
<td>Political Propaganda in Film</td>
</tr>
<tr>
<td>PSC 495</td>
<td>Directed Research in Political Science</td>
</tr>
<tr>
<td>PSC 496</td>
<td>Independent Studies and Special Projects</td>
</tr>
<tr>
<td>PSC 497</td>
<td>Honors Research in Political Science</td>
</tr>
<tr>
<td>PSC 498</td>
<td>Public Affairs Internship</td>
</tr>
</tbody>
</table>

Political Science Electives

Select 9 credit hours in Political Science (PSC) | 9 |

Total Hours | 36

1. Completing PSC 101, PSC 102, and PSC 103 will automatically satisfy nine hours of Core Curriculum Area IV.
2. Students must complete 9 hours of the major classes at the 400 level.

Additional Requirements

A minor is required for this degree.

Students must take general electives to reach the 120 semester hours requirement.

Proposed Program of Study for a Major in Political Science

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>First Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3</td>
<td>PSC 102</td>
<td>3</td>
</tr>
<tr>
<td>PSC 101</td>
<td>3</td>
<td>PSC 103</td>
<td>3</td>
</tr>
</tbody>
</table>

The University of Alabama at Birmingham
207
### Core Curriculum Area II: Humanities

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
</tbody>
</table>

### Core Curriculum Area II: Fine Art

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
</tbody>
</table>

### Core Curriculum Area III: Natural Science with Laboratory

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
</tbody>
</table>

### Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
<tr>
<td>PSC 104</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Hours

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>15</td>
</tr>
<tr>
<td>Junior</td>
<td>15</td>
</tr>
<tr>
<td>Senior</td>
<td>15</td>
</tr>
</tbody>
</table>

### Minor in Political Science

A C or better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.

### Minor Requirements for Political Science

#### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 101</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Introductory Political Science courses

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 102</td>
<td>2</td>
</tr>
<tr>
<td>PSC 102</td>
<td>2</td>
</tr>
</tbody>
</table>

### Total Credit Hours: 120-122

1. Select one course from HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select one fine art from ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3. Select one from EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.

### Honors Program in Political Science

#### Purpose

The Political Science Honors Program is designed to provide outstanding political science majors with the opportunity for advanced study of the political process. Honors students have the opportunity to complete an independent research project while working closely with a faculty member. The advanced study provided by the honors program accelerates a student’s preparation for graduate or professional training.

#### Eligibility

Criteria for entering freshmen are:

- A 3.25 high school GPA and ACT composite score of 20 (or equivalent SAT score).
- Declaration of political science as the student’s major.
- A letter of intent.

Criteria for students already enrolled at UAB or transfer students are:

- Completion of nine semester hours of political science.
- A 3.0 cumulative GPA and a 3.25 GPA in political science (and maintenance of these minima).
- Declaration of political science as the student’s major.
- A letter of intent.

**OR**

- Junior standing.
- Completion of nine semester hours of political science.
- A 3.0 cumulative GPA and a 3.25 GPA in political science courses in the last 30 percent of coursework attempted (and maintenance of these minima).
- Declaration of political science as the student’s major.
- Letter of intent.
- Faculty approval.

### Requirements

Students in the Political Science Honors Program are required to do the following:

- Enroll in the Honors Program (replaces the requirement for a specialization).
• Complete one of the following advanced seminars:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 401</td>
<td>3</td>
</tr>
<tr>
<td>Seminar in American Government</td>
<td></td>
</tr>
<tr>
<td>PSC 402</td>
<td>3</td>
</tr>
<tr>
<td>Seminar in Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>PSC 403</td>
<td>3</td>
</tr>
<tr>
<td>Seminar in International Relations</td>
<td></td>
</tr>
<tr>
<td>PSC 404</td>
<td>3</td>
</tr>
<tr>
<td>Seminar in Political Theory</td>
<td></td>
</tr>
</tbody>
</table>

• Enroll in three semester hours of PSC 497 after completion of the advanced seminar for advanced research in the selected subfield.

• Prepare an advanced research project (after completion of PSC 497), which will lead to the development of a substantial research paper and, in some cases, a senior thesis.

• Present research project findings to a colloquium of other PSC 497 students and department faculty.

• Participate in Pi Sigma Alpha, the national political science honor society.

**Benefits**

Honors students will benefit from on-one-one mentoring with faculty in the department, which will lead to a more thorough understanding of the field and practice of political science. This is particularly useful as students choose career goals, such as graduate school, law school, public service, the foreign service, or other opportunities. Additionally, students who complete the program will receive a certificate at the annual UAB Honors Convocation and will graduate “With Honors in Political Science.”

**Contact**

For more information and/or admission to the Political Science Honors Program, contact the Political Science Program Director, 414 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-9680.

**Department of History**

**Chair:** Colin Davis

The Department offers the Bachelor of Arts degree and the Master of Arts degree in History. The department also includes the Media Studies program (formerly known as Digital Community Studies Program) which offers a minor.

In its broadest sense, the discipline of history provides the background for all other subjects and disciplines. The classical goal of self-knowledge can be enhanced through the study of history. The analytical study of history provides an understanding of “why we are what we are” and “how we came to be where we are today.” The purpose of historical study is not only an understanding of our own past and present, but an appreciation of the evolution of other cultures, civilizations, and nations.

Students interested in careers in the fields of law, teaching, public service, international affairs, business, journalism, and a variety of other areas involving the social sciences and humanities will find the history major beneficial and rewarding.

The Media Studies Program offers a minor for students interested in opportunities for applied research in local communities through the use of new media technology. The minor provides students a solid grounding in the history, theory and practice of documentary film, film history, oral history, ethnography, community studies, and media theory. Students will gain experience in community-based research, as well as attain proficiency in various new media technologies.

**Major Requirements for History**

A grade of C or better is required in all History (HY) courses.

**Requirements**

**Hours**

**History Sequence**

<table>
<thead>
<tr>
<th>Select four of the following courses:</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 101 Western Civilization I</td>
<td></td>
</tr>
<tr>
<td>HY 102 Western Civilization II</td>
<td></td>
</tr>
<tr>
<td>HY 104 World History to 1600</td>
<td></td>
</tr>
<tr>
<td>HY 105 World History 1600 to the Present</td>
<td></td>
</tr>
<tr>
<td>HY 120 The United States To 1877</td>
<td></td>
</tr>
<tr>
<td>HY 121 The United States Since 1877</td>
<td></td>
</tr>
</tbody>
</table>

**Research Courses**

| HY 300 The Historian's Craft         | 3  |
| HY 497 History Capstone              | 3  |

**History Electives**

Select seven courses in History (HY) not listed above, including three at the 400-level and two at the 300-level or above. Students must take two of their electives in U.S. history and two in non-U.S. history; one of the two non-U.S. history electives must be a non-Western history.

**Total Hours**

| 39 |

1. Completion of this requirement will automatically satisfy Core Curriculum Area IV: History.
2. Students may not take both HY 101 and HY 104 or both HY 102 and HY 105.
3. Students may take no more than a total of 6 semester hours of the following independent studies courses: Directed Readings in History (HY 491/HY 492) or Internship in Public History (HY 482).
4. Students must take 18 semester hours in 300- and 400-level courses at UAB.

**Proposed Program of Study for a Major in History**

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3</td>
<td>Core Curriculum Area IV: History</td>
<td>6</td>
</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Social and Behavioral Science</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>HY 300</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Natural Science with Laboratory</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History Survey</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Contact**

For more information and/or admission to the Political Science Honors Program, contact the Political Science Program Director, 414 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-9680.
General Elective 3  General Elective 3
16 16

Junior

<table>
<thead>
<tr>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>Second Term</td>
</tr>
<tr>
<td>History (300 level and above)</td>
<td>3 History (400 level)</td>
</tr>
<tr>
<td>History (200 level and above)</td>
<td>3 History (300 level and above)</td>
</tr>
<tr>
<td>Elective</td>
<td>3 Elective</td>
</tr>
<tr>
<td>General Elective</td>
<td>6 General Elective</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>Second Term</td>
</tr>
<tr>
<td>HY 497</td>
<td>3 History (400 level)</td>
</tr>
<tr>
<td>History (400 level)</td>
<td>3 History (300 level and above)</td>
</tr>
<tr>
<td>History (200 level and above)</td>
<td>3 Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>3 General Elective</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 General Elective</td>
</tr>
<tr>
<td>15</td>
<td>13-15</td>
</tr>
</tbody>
</table>

Total credit hours: 120-122

1 Select one: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2 Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3 Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224

Honors Program in History

Purpose

The History Honors Program is designed for outstanding history majors at UAB and allows qualified students to write a Honor’s Thesis based on original research. Faculty-led independent research for the senior thesis provides students with experience in applying historical methods and analytical writing techniques. This more advanced study helps prepare undergraduate history majors for graduate work in the field or for postgraduate training in other areas such as law, theology, and medicine. Students who complete the program will graduate “With Honors in History.”

Eligibility

To be eligible for the History Honors Program, students must complete at least 60 semester hours with a minimum 3.0 overall GPA and a minimum 3.5 GPA in history courses. At least 24 semester hours in the history major (including HY 300 Historian’s Craft) must be completed prior to acceptance in the Honors Program.

Interested students must apply for the program which includes submitting a prospectus with bibliography. The application must include the signature of a History Department faculty member who has agreed to direct the Honor’s Thesis. If the student is accepted to the program, the student and the thesis director will choose two additional faculty members to make up the student’s thesis committee. The thesis committee will determine whether the student’s completed thesis qualifies for honors.

Requirements

The History Honors Program requires 39 total semester hours in history and maintenance of an overall 3.0 GPA and a 3.5 GPA in history courses through graduation.

Additional requirements include:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select four from the following:</td>
<td>12</td>
</tr>
<tr>
<td>HY 101</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civilization II</td>
</tr>
<tr>
<td>HY 104</td>
<td>World History to 1600</td>
</tr>
<tr>
<td>HY 105</td>
<td>World History 1600 to the Present</td>
</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>HY 300</td>
<td>The Historian’s Craft</td>
</tr>
<tr>
<td>HY 497</td>
<td>History Capstone</td>
</tr>
<tr>
<td>Select two courses at the 300 or 400 level</td>
<td>6</td>
</tr>
<tr>
<td>Select two courses at the 400 level or above</td>
<td>6</td>
</tr>
<tr>
<td>Select two electives</td>
<td>6</td>
</tr>
<tr>
<td>HY 401</td>
<td>Honors Thesis</td>
</tr>
<tr>
<td>Total Hours</td>
<td>39</td>
</tr>
</tbody>
</table>

1 The department recommends that this course be taken after completion of the lower-division survey requirement and before taking upper-division courses.
2 These courses may not be transferred from another institution and must be taken at UAB.

Minor Requirements for History

A grade of C or better is required in all courses applied to the minor.

Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory U.S. History</td>
</tr>
<tr>
<td>Select one of the following:</td>
</tr>
<tr>
<td>HY 120</td>
</tr>
<tr>
<td>HY 121</td>
</tr>
<tr>
<td>Introductory History courses</td>
</tr>
<tr>
<td>Select two of the following:</td>
</tr>
<tr>
<td>HY 101</td>
</tr>
<tr>
<td>HY 102</td>
</tr>
<tr>
<td>HY 104</td>
</tr>
<tr>
<td>HY 105</td>
</tr>
<tr>
<td>HY 120</td>
</tr>
<tr>
<td>HY 121</td>
</tr>
<tr>
<td>History Electives</td>
</tr>
<tr>
<td>Select six hours from 300-level or above History (HY) courses and three hours any level history.</td>
</tr>
<tr>
<td>Total Hours</td>
</tr>
</tbody>
</table>

1 May also apply toward Core Curriculum Area IV.
2 Students may not take both HY 101 and HY 104 or both HY 102 and HY 105.
3 May also apply toward Core Curriculum Area IV.

Note: At least 6 semester hours in history above the 300 level must be taken at UAB. No grade below C may be counted toward the history minor.
Honors students may take one or two graduate seminars in history for undergraduate credit with permission of the Director of the History Undergraduate Program. This credit may not be used for graduate credit.

Contact

For additional information on the History Honors Program, contact the Department of History, Director of History Undergraduate Program or Chair; Telephone (205) 934-5634.

Department of Justice Sciences

Chair: Jeffery Walker

The Department of Justice Sciences offers programs of study leading to a Bachelor of Science in Criminal Justice (B.S.C.J.), the Master of Science in Criminal Justice (M.S.C.J.), a joint Master of Science in Criminal Justice and a Master of Science in Public Administration (M.S.C.J./M.P.A.), a Master of Science in Forensic Science (M.S.F.S.), and a Master of Science in Computer Forensics and Security Management (M.S.C.F.S.M.). The Department also offers undergraduate minors in Legal Affairs through the University's Pre-Law Program, and a minor in Forensic Psychology offered jointly with the Department of Psychology. The department also sponsors category “A” and “B” graduate Certificate Programs in Computer Forensics offered jointly with the Department of Computer and Information Sciences.

The program leading to the Bachelor of Science in Criminal Justice offers students broad academic exposure to the fields of criminal justice, criminology, and law, while providing opportunities for students to concentrate in computer forensics/cybercrime, corrections, criminology, forensic science, juvenile justice, law, and policing. The primary mission of the program is to educate students by developing in them the knowledge and basic skills necessary to be successful in the field of criminal justice, including:

1. Major theoretical explanations of crime/delinquency.
2. The logic and procedures associated with the research process, including understanding statistical analysis.
3. The substantive, procedural, and operational aspects of the criminal justice system and its processes.
4. The ethical foundations for the system.

Each of these areas is developed through activities associated with specific courses in the curriculum as well as through an Internship/Capstone experience during the student’s senior year.

Undergraduate students interested in Forensic Science should consult the M.S.F.S. Program Director to learn more about the field. Students interested in the Legal Affairs minor should contact the Pre-Law Program Director. Students interested in either the Forensic Psychology minor or the graduate programs in Computer Forensics should contact the Department Chair.

Graduate Programs

The program leading to the Master of Science in Criminal Justice degree emphasizes the acquisition of theoretical perspectives and research skills to analyze the justice system’s response to criminal behavior. The program leading to the Master of Science in Forensic Science is laboratory-based, and prepares students for entry-level careers in public and private sector crime laboratories. This degree offers opportunities for specialization in forensic biology and forensic chemistry. The program leading to the Master of Science in Computer Forensics and Security Management is a professional master’s program, similar to traditional M.B.A. programs, where students complete a core set of courses and then choose one of two available specializations: computer forensics and cybercrime investigation, or fraud/IT audit. The programs leading to category “A” and “B” Certificates in Computer Forensics combines coursework from multiple disciplines designed to help students familiarize themselves with basic aspects of computer forensics. Consult the respective Program Director, the Department Chair, or the UAB Graduate Catalog for details on these programs.

Pre-Law Program

The Pre-Law Program includes academic offerings such as undergraduate minors in Legal Affairs (Department of Justice Sciences) and Philosophy and Law (Department of Philosophy), experiential learning via internships and participation in the University’s nationally competitive and award winning Mock Trial team, and academic advising that helps students prepare for law school admissions. Consult the Pre-Law Program Director or Department Chair for more information on this program.

Major Requirements for Criminal Justice

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 100  Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>JS 101  Crime and Criminality</td>
<td>3</td>
</tr>
<tr>
<td>JS 220  Police in America: An Overview</td>
<td>3</td>
</tr>
<tr>
<td>JS 230  The Judicial Process in America: An Overview</td>
<td>3</td>
</tr>
<tr>
<td>JS 240  Corrections in America: An Overview</td>
<td>3</td>
</tr>
<tr>
<td>JS 300  Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JS 360  Criminology</td>
<td>3</td>
</tr>
<tr>
<td>JS 410  Criminal Justice Ethics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Internship &amp; Capstone</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>JS 497  Internship and Capstone in Criminal Justice for Practitioners</td>
<td></td>
</tr>
<tr>
<td>JS 498  Distance Internship and Capstone in Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>JS 499  Internship and Capstone in Criminal Justice</td>
<td></td>
</tr>
<tr>
<td><strong>Justice Science Electives</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>Students may choose to complete one of six areas of specialization by</td>
<td></td>
</tr>
<tr>
<td>completing 12 hours in the area OR choose 12 hours of criminal justice</td>
<td></td>
</tr>
<tr>
<td>electives from any justice sciences elective courses. Concentrations</td>
<td></td>
</tr>
<tr>
<td>include:</td>
<td></td>
</tr>
<tr>
<td>Corrections</td>
<td></td>
</tr>
<tr>
<td>JS 341  Correctional Institutions</td>
<td></td>
</tr>
<tr>
<td>JS 342  Probation and Parole</td>
<td></td>
</tr>
<tr>
<td>JS 343  Community-Based Corrections</td>
<td></td>
</tr>
<tr>
<td>JS 445  Juvenile Corrections</td>
<td></td>
</tr>
<tr>
<td>Criminology</td>
<td></td>
</tr>
<tr>
<td>JS 305  Religion and Crime</td>
<td></td>
</tr>
<tr>
<td>JS 307  Crime and Everyday Life</td>
<td></td>
</tr>
<tr>
<td>JS 362  Victimology</td>
<td></td>
</tr>
<tr>
<td>JS 380  Media, Crime &amp; Justice</td>
<td></td>
</tr>
<tr>
<td>JS 390  The Death Penalty in America</td>
<td></td>
</tr>
<tr>
<td>JS 404  Serial Killers</td>
<td></td>
</tr>
<tr>
<td>JS 408  Juvenile Delinquency</td>
<td></td>
</tr>
<tr>
<td>JS 424  Serial Killers in Cross-National Settings</td>
<td></td>
</tr>
<tr>
<td>JS 440  White Collar and Corporate Crime</td>
<td></td>
</tr>
<tr>
<td>JS 441  Terrorism and Social Control</td>
<td></td>
</tr>
</tbody>
</table>
Grade and Residency Requirement

A grade of C or better is required in all Justice Science courses. At least 3 hours must be taken at the 300 level or higher and 9 hours must be taken at the 400-level or higher. Students must have a 2.3 cumulative GPA prior to applying for their Internship.

Additional Requirements

Minor

A minor is not required for this degree.

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Criminal Justice

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3</td>
<td>JS 101</td>
<td>3</td>
</tr>
<tr>
<td>JS 100</td>
<td>3</td>
<td>Core Curriculum Area II: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: or Freshman Learning Community</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total</th>
<th>15</th>
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</thead>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 220</td>
<td>3</td>
<td>JS 230</td>
<td>3</td>
</tr>
<tr>
<td>JS 120 (or Equivalent)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Art</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Natural Science with Laboratory</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total</th>
<th>16</th>
</tr>
</thead>
</table>

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 300</td>
<td>3</td>
<td>Justice Science (400 level)</td>
<td>3</td>
</tr>
<tr>
<td>Justice Science (JS) Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JS 360</td>
<td>3</td>
<td>Minor</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total</th>
<th>15</th>
</tr>
</thead>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 410</td>
<td>3</td>
<td>Capstone (Select one): JS 497</td>
<td>3</td>
</tr>
<tr>
<td>Justice Science (300-400 level)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total</th>
<th>15</th>
</tr>
</thead>
</table>
Legal Affairs Minor (18 Semester Hours)

The minor in Legal Affairs is designed to help students learn to think both critically and creatively about law, rather than to specifically prepare them for law school. Because the program is interdisciplinary and presents law as the subject of liberal inquiry, students in the program examine law from various perspectives. The minor exposes students to both general and specific aspects of both substantive and procedural law – civil and criminal; helps them understand not only litigation, but alternatives to it; provides students the opportunity to enhance their legal research and writing skills; and facilitates student participation in the Pre-Law program’s nationally recognized Mock Trial Team.

Consisting of groups of 1) required courses, 2) core electives, and 3) other electives, the Legal Affairs curriculum is sequential, where elective courses build upon two required courses: JS 150 (Foundations of Law) and JS 230/PSC 330 (Judicial Process). The curriculum is structured in such a way as to insure that a student can complete its requirements in a typical academic year (Fall – Summer). Under no circumstances may a student pursuing the Legal Affairs minor earn dual credit toward his or her major in Criminal Justice and the Legal Affairs minor by completing a course appearing in both curricula. Students are responsible for fulfilling any prerequisites for courses in the curriculum.

The 18 semester hours for the Legal Affairs minor require a final grade of C or better in each course. The Department reserves the right to require additional coursework, prerequisites, or a specific grade point average to complete the program of study for the minor.

Legal Affairs Minor

Requirements Hours
Required Courses
JS 150 Foundations of Law 3
Minor Requirements for Forensic Psychology

<table>
<thead>
<tr>
<th>Requirements Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 110 Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>JS 125 Introduction to Forensic Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 125 Introduction to Forensic Psychology</td>
<td></td>
</tr>
<tr>
<td>JS 330 Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>JS 460 Violence: An American Tradition</td>
<td>3</td>
</tr>
<tr>
<td>JS 333 Trial Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 372 Social Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 418 Psychotherapy and Behavior Change</td>
<td>3</td>
</tr>
<tr>
<td>PY 319 Psychopathology and Culture</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

A grade of “C” or better is required for all courses.

Transfer Students must earn at least 9 hours of PY or JS credit at UAB, 6 hours of which must be at the 300 level or higher. Students may have to satisfy prerequisites before taking some of the courses.

Students who major or minor in Criminal Justice or Psychology or who minor in Legal Affairs cannot earn dual credit toward fulfilling the requirements for those majors or minors by taking courses in the Forensic Psychology minor. The Department of Justice Sciences and the Department of Psychology each reserves the right to require a specific grade point average as an additional prerequisite for students enrolling in courses at the 300 level or higher.

Honors Program in Criminal Justice

Purpose
The Criminal Justice Honors Program encourages and prepares outstanding students to pursue a career in the field of Criminology/Criminal Justice by providing an opportunity to conduct research under the guidance of a faculty mentor. The program promotes initiative, creativity, and independent thinking among academically talented students.

Eligibility
Students are admitted to the Honors Program based on an evaluation conducted by the Honors Program Coordinator and a committee of faculty members. Students seeking admission to the Honors Program must:

- Be a second semester junior (students are admitted to the Honors Program during the summer preceding their senior year).
- Have completed all required courses for the criminal justice major by the time they enter the program.
- Have a cumulative GPA of 3.25 or higher and a GPA of 3.25 or higher in all Justice Sciences courses attempted.
- Complete and submit an application for admission to the Honors Program Coordinator;
- Schedule and complete an interview with the Honors Program Coordinator.

Requirements for the Honors Program include completing the remainder of the students’ elective courses for the Criminal Justice major; completing (with a grade of “B” or better), JS 481 Honors Research (Fall semester) and JS 482 Honors Research and Colloquium (Spring semester); completing the Honors Research Project and presenting the results of the project at either the Department’s Honor’s Research Colloquium or at professional conference, such as the Annual Meetings of the Southern Criminal Justice Association.

Benefits
Participation in the Criminal Justice Honors Program provides opportunities for academically talented students to have unique access to faculty and to interact with other honors students in an environment that encourages creative and innovative thinking. Beyond the fact seminar participation and research experience will be useful for further work in the field of Criminology/Criminal Justice, completion of the honors program is advantageous when applying to graduate programs in the field. Students who complete the program will graduate from UAB “With Honors in Criminal Justice.”

Contact
For additional information on the Justice Sciences Honors Program, please contact

Dr. Hyeyoung Lim
Department of Justice Sciences
1201 University Blvd.
Suite 210
Birmingham AL 35294-4562
Telephone (205) 934-2069
E-mail: hyeyoung@uab.edu

Department of Mathematics

Chair: Rudi Weikard
Associate Chair: John C. Mayer

The Department of Mathematics offers courses in pure and applied mathematics and a major and minor in mathematics leading to employment in education, government, business, and industry. In addition, mathematics courses are offered to support programs in the physical, social, biological, and health sciences and in engineering, business, and education. Students considering a major or minor in mathematics should consult the undergraduate advisor, Dr. Hutchison, at (205) 934-2154 to arrange for counseling on career and academic objectives and program planning.

The Department of Mathematics Web site (http://www.uab.edu/mathematics/) summarizes information about the Departmental programs.

For the major there are four distinct B.S. degree tracks in mathematics:

1. Mathematics (traditional track)
2. Mathematics with Honors
3. Applied Mathematics and Scientific Computation
4. Mathematical Reasoning

Students interested in secondary teaching certification in mathematics normally take the traditional track. Students interested in middle school
teaching normally take the mathematical reasoning track. Certification courses are part of the UABTeach (https://www.uab.edu/uabteach) program.

**Mathematics Fast-Track Program**

The Department of Mathematics has an accelerated program for qualified students. Through this Fast-Track option, a mathematics major can earn a BS degree and an MS degree in mathematics in four to five years (depending upon whether summer terms are included). As another option, students can pursue a BS in mathematics and an MS in biostatistics by choosing the biostatistics track at the end of the third year. Each individual Fast-Track student works with a mentor from the graduate faculty on a mathematics research project during every term. Fast-Track students will usually begin taking graduate mathematics courses after the third year, and are automatically admitted to the graduate program in the fourth year, if performing satisfactorily. Students who complete this program will be prepared for continued graduate work in mathematics and the sciences, or for careers in industry. Fast-Track scholarships are available. For more information, contact the Honors Program Director, Dr. Oversteegen, at (205) 934-2154.

**Course Numbering System**

Mathematics course numbers indicate both the level and area of the course. The first digit (0, 1, 2, 3, or 4) indicates developmental (no degree credit), freshman, sophomore, junior, or senior level, respectively. The second and third digits indicate area, according to this scheme:

- 00–10 — Pre-calculus
- 11–19 — History of mathematics and mathematical reasoning
- 20–29 — Logic and foundations
- 30–39 — Algebra
- 40–49 — Analysis
- 50–59 — Differential equations
- 60–69 — Applications-oriented courses
- 70–79 — Geometry and topology
- 80–89 — Probability and statistics
- 90–99 — Special topics, seminars, and independent research

For example, MA 454 Intermediate Differential Equations is an advanced level differential equations course. Calculus courses (MA 125, MA 126, and MA 227) are exceptions to the area numbering scheme.

**Graduate Programs**

The Department of Mathematics offers graduate study leading to the degrees of Master of Science in mathematics (thesis or non-thesis option) and Doctor of Philosophy in applied mathematics. Further information may be obtained from the Graduate Program Director, or the UAB Graduate School Catalog.

See the UAB Graduate School Catalog for descriptions of graduate courses.

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**Major in Mathematics (p. 215)**

**Major in Mathematics with an Applied Mathematics and Scientific Computation Track (p. 216)**

**Major in Mathematics with a Mathematical Reasoning Track (p. 216)**

**Major Requirements for Mathematics**

<table>
<thead>
<tr>
<th>Required Mathematics Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thirty-nine semester hours with twenty-four at the 300 level or above</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MA 225 Calculus I - Honors</td>
<td></td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>or MA 226 Calculus II - Honors</td>
<td></td>
</tr>
<tr>
<td>MA 227 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MA 434 Algebra I: Linear</td>
<td>3</td>
</tr>
<tr>
<td>MA 440 Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MA 441 Advanced Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MA 360 Scientific Programming</td>
<td></td>
</tr>
<tr>
<td>MA 361 Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>MA 461 Modeling with Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 468 Numerical Analysis</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics Electives and Advanced Mathematics Sequence**

<table>
<thead>
<tr>
<th>Required Mathematics Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 361 Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>MA 461 Modeling with Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 468 Numerical Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Two or three electives selected from courses numbered 300 or above, each of which must have at least a calculus (MA 125) prerequisite. MA 313 counts toward the major only for students in UABTeach. MA 411 does not count toward the major.

Choose one of the following Advanced Mathematics sequences:

| MA 434 Algebra I: Linear & MA 435 Algebra II: Modern | 2 |
| MA 454 Intermediate Differential Equations & MA 455 Partial Differential Equations I | |
| MA 455 Partial Differential Equations I & MA 461 Modeling with Partial Differential Equations | |
| MA 463 Operations Research I & MA 464 Operations Research II | |
| MA 470 Differential Geometry I & MA 471 Differential Geometry II | |
| MA 474 Introduction to Topology I & MA 475 and Introduction to Topology II | |
| MA 485 Probability & MA 486 and Mathematical Statistics | |
| MA 485 Probability & MA 587 and Advanced Probability | |

Total Hours: 39

1 Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement. MA 126, MA 252 and MA 361 are all quantitative literacy (QL) and writing (W) courses satisfying the QEP requirements of the core. In addition, MA 125 is a QL course. UAB requires that all students complete a capstone requirement. For this track the capstone requirement is MA 441.
Three electives are required if MA 434/MA 435 is chosen as the advanced sequence.

Grade Requirement
A grade of C or better is required in each course counted toward the major.

Minor
- A minor is required for this degree. Those interested in secondary education can select the STEM Education minor offered by the School of Education.

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Applied Mathematics and Scientific Computation Track
This track aims to provide graduates with the mathematical and computational skills needed to develop and maintain mathematical models from the Sciences, Engineering, Medicine and the Biosciences, Business, and elsewhere.

A mathematical model is a rendering of some real-world system into the language of mathematics, usually taking the form of a single partial differential equation, or a system of such equations. The development of effective mathematical models is a fundamental need of our society, based as it is upon science and technology, and these models act as the indispensable link between us humans and the multitude of machines that we use to manage and investigate our world.

Major Requirements for Mathematics in the Applied Mathematics and Scientific Computation Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics Courses</td>
<td></td>
</tr>
<tr>
<td>39 semester hours with 21 hours at the 300 level or above</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MA 225 Calculus I - Honors</td>
<td></td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>or MA 226 Calculus II - Honors</td>
<td></td>
</tr>
<tr>
<td>MA 227 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MA 360 Scientific Programming</td>
<td>3</td>
</tr>
<tr>
<td>MA 260 Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MA 434 Algebra I: Linear</td>
<td></td>
</tr>
<tr>
<td>MA 455 Partial Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>or MA 461 Modeling with Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>or MA 486 Mathematical Statistics</td>
<td></td>
</tr>
<tr>
<td>Mathematics Electives</td>
<td>6</td>
</tr>
<tr>
<td>Two additional electives selected from courses numbered 300 or above, and from areas 30-99 of the course numbering system for mathematics</td>
<td></td>
</tr>
<tr>
<td>Advanced Mathematics Electives</td>
<td>9</td>
</tr>
<tr>
<td>Select three additional electives from the following courses:</td>
<td></td>
</tr>
<tr>
<td>MA 444 Vector Analysis</td>
<td></td>
</tr>
<tr>
<td>MA 445 Complex Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 39

Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement. MA 126 and MA 252 are quantitative literacy (QL) and writing (W) courses satisfying the QEP requirements of the Core Curriculum. In addition, MA 125 is a QL course. UAB requires that all students must complete a capstone requirement. For this track the capstone requirement is one of MA 455, MA 461, and MA 486.

Grade Requirement
A grade of C or better is required in each course counted toward the major.

Minor
- A minor in the sciences, business, or engineering is required for this degree. Students in UABTeach (https://www.uab.edu/uabteach) may select the minor in STEM Education offered by the School of Education.

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Mathematical Reasoning Track
The Mathematical Reasoning Track is designed to develop a deeper level of understanding of mathematical thinking, including a deepening knowledge of important mathematical ideas, understanding the role of inquiry and reflection in learning mathematics, understanding the role of cultivating a productive disposition in tackling mathematical problems, and developing the ability to communicate mathematics to audiences at different levels. In particular, this track is appropriate for students interested in pursuing certification in mathematics at the middle school level.

Major Requirements for Mathematics in the Mathematical Reasoning Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics Courses</td>
<td></td>
</tr>
<tr>
<td>39 semester hours with 21 hours at the 300 level or above</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MA 225 Calculus I - Honors</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following four groups:</td>
<td></td>
</tr>
<tr>
<td>MA 106 Pre-Calculus Trigonometry</td>
<td>6-8</td>
</tr>
<tr>
<td>MA 454 Intermediate Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 455 Partial Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>MA 461 Modeling with Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 462 Intro to Stochastic Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 463 Operations Research I</td>
<td></td>
</tr>
<tr>
<td>MA 464 Operations Research II</td>
<td></td>
</tr>
<tr>
<td>MA 467 Gas Dynamics</td>
<td></td>
</tr>
<tr>
<td>MA 468 Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MA 484 Mathematical Finance</td>
<td></td>
</tr>
<tr>
<td>MA 485 Probability</td>
<td></td>
</tr>
<tr>
<td>MA 486 Mathematical Statistics</td>
<td></td>
</tr>
<tr>
<td>MA 497 Research Methods in Mathematics</td>
<td></td>
</tr>
<tr>
<td>MA 587 Advanced Probability</td>
<td></td>
</tr>
</tbody>
</table>

1 Completion of MA 125 automatically satisfies the Core Curriculum Area III: Math requirement. MA 126 and MA 252 are quantitative literacy (QL) and writing (W) courses satisfying the QEP requirements of the Core Curriculum. In addition, MA 125 is a QL course. UAB requires that all students must complete a capstone requirement. For this track the capstone requirement is one of MA 455, MA 461, and MA 486.

Grade Requirement
A grade of C or better is required in each course counted toward the major.

Minor
- A minor in the sciences, business, or engineering is required for this degree. Students in UABTeach (https://www.uab.edu/uabteach) may select the minor in STEM Education offered by the School of Education.

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Major Requirements for Mathematics in the Mathematical Reasoning Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics Courses</td>
<td></td>
</tr>
<tr>
<td>39 semester hours with 21 hours at the 300 level or above</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MA 225 Calculus I - Honors</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following four groups:</td>
<td></td>
</tr>
<tr>
<td>MA 106 Pre-Calculus Trigonometry</td>
<td>6-8</td>
</tr>
<tr>
<td>MA 454 Intermediate Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 455 Partial Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>MA 461 Modeling with Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 462 Intro to Stochastic Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MA 463 Operations Research I</td>
<td></td>
</tr>
<tr>
<td>MA 464 Operations Research II</td>
<td></td>
</tr>
<tr>
<td>MA 467 Gas Dynamics</td>
<td></td>
</tr>
<tr>
<td>MA 468 Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MA 484 Mathematical Finance</td>
<td></td>
</tr>
<tr>
<td>MA 485 Probability</td>
<td></td>
</tr>
<tr>
<td>MA 486 Mathematical Statistics</td>
<td></td>
</tr>
<tr>
<td>MA 497 Research Methods in Mathematics</td>
<td></td>
</tr>
<tr>
<td>MA 587 Advanced Probability</td>
<td></td>
</tr>
</tbody>
</table>
Proposed Program of Study for a Major in Mathematics with a Traditional Track

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4 MA 126</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HY 101</td>
<td>3 HY 102</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Hours | 13 |

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 227</td>
<td>4 MA 252</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>EH 216</td>
<td>3 MA 361</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PH 221</td>
<td>4 CS 250</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 203</td>
<td>4 PH 222</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 15 |

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 434</td>
<td>3 MA 435</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 485</td>
<td>3 MA 486</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3 EC 210</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 303</td>
<td>4 CS 330</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>3 PHL 115</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 15 |

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 440</td>
<td>3 MA 441</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 472</td>
<td>3 General Electives</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>MA 311</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 16 |

**Total credit hours: 120**

---

1. Completion of MA 106 or MA 107 automatically satisfies the Core Curriculum Area III: Math requirement. MA 106, MA 107, MA 110, MA 125, MA 361, MA 418 are all quantitative literacy courses satisfying the QEP requirements of the Core Curriculum. In addition, MA 361 is a QEP writing (W) course. UAB requires that all students complete a capstone requirement. The capstone requirement for this track is MA 411. At least three courses in this major must be at the 400 level.

2. Students cannot count both MA 106 and MA 107 toward their major.

3. MA 419 cannot be repeated for credit toward this major.

---

**Proposed Program of Study for a Major in Mathematics with a Traditional Track and Leading to Secondary Teaching Certification**

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4 MA 126</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HY 101</td>
<td>3 HY 102</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Hours | 14 |

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 227</td>
<td>4 MA 252</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 361</td>
<td>3 PH 222</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PH 221</td>
<td>4 EH 216</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>EHS 325</td>
<td>3 HY 275</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total Hours | 14 |

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 434</td>
<td>3 MA 435</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 472</td>
<td>3 MA 486</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MA 485</td>
<td>3 EC 210</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3 PHL 115</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>EHS 326</td>
<td>3 Elective</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

| Total Hours | 15 |

---

**Grade Requirements**

A grade of C or better is required in each course counted toward the major. Requirements are 34-36 semester hours in mathematics with 24 at the upper level (courses numbered 300 and above). Nine hours must be taken at the 400 level.

**Minor**

- A minor is required for this degree. Those interested in middle school education can select the STEM Education minor offered by the School of Education.

**General Electives**

Students must take general electives to reach the 120 semester hour requirement.

---

**Proposed Program of Study for a Major in Mathematics with a Traditional Track**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 101</td>
<td>3 CS 103</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

| Total Hours | 13 |

---

The University of Alabama at Birmingham
# Proposed Program of Study for a Major in Mathematics with an Applied Mathematics and Scientific Computation Track

## Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4 MA 126</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HY 101</td>
<td>3 HY 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Area II or IV course</td>
<td>3 Core Area II or IV Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CAS 112 or EHS 125</td>
<td>1 General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 227</td>
<td>4 MA 252</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core EH Literature</td>
<td>3 Core Area II or IV Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course in Minor</td>
<td>3 Core Area III Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Core Area III Science</td>
<td>4 Course in Minor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 General Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 360</td>
<td>3 MA 260</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 4XX Elective</td>
<td>3 MA 4XX elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Core Area II or IV Courses</td>
<td>6 Course in Minor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course in Minor</td>
<td>3 Core Area II or IV Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 General Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 4XX Elective</td>
<td>3 MA 4XX Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course in Minor</td>
<td>3 MA Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA Elective</td>
<td>3 Course in Minor</td>
<td>3</td>
<td></td>
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<tr>
<td>General Electives</td>
<td>6 General Electives</td>
<td>6</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

The above schedule assumes the student is in UABTeach (https://www.uab.edu/uabteach) and is pursuing middle school certification. If not, EHS courses should be replaced by courses fulfilling requirements for a minor course of study.

### Minor Requirements for Mathematics

#### Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
</tr>
<tr>
<td>MA 126</td>
</tr>
<tr>
<td>MA 227</td>
</tr>
</tbody>
</table>

#### Mathematics Electives

Select nine hours from Mathematics courses numbered 200 or above. 2

Total Hours: 21

1. MA 125 Calculus I may also satisfy the Core Curriculum Area III: Math requirement; check the Core Curriculum for your particular major.
2. At least 6 semester hours of which must have a calculus (MA 125) prerequisite. (MA 260 Introduction to Linear Algebra and MA 434 Algebra I: Linear cannot both be counted.) MA 411 does not count toward the minor.

### GPA & Residency Requirement

A minimum grade of C is required in all courses applied to the minor. A minimum of six semester hours with a calculus (MA 125) prerequisite must be completed at UAB.
Honors Program

The Mathematics Honors Program is designed for advanced, motivated students. Through a mentored research program format and seminars, research and communication skills are developed in preparation for a graduate or professional career.

The Mathematics Honors Program fosters a spirit of inquiry, independence, and initiative along with providing an overview of the relationships among the branches of mathematics studied. The student will have an early opportunity to tackle a mathematical research project while interacting one-on-one with faculty members in a research setting.

The mentoring, the approved seminars, and the oral presentation or poster should all contribute to the student's development. Upon completion of the program, the student will graduate “With Honors in Mathematics.”

Acceptance into the Mathematics Honors Program requires the student:

• to be a mathematics major in the traditional track;
• to have earned a 3.5 GPA in mathematics courses attempted;
• to have earned a 3.0 GPA overall;
• to have arranged with one or more faculty mentors to work on undergraduate research projects for six semester hours distributed over two or more terms; and
• to have filled out and submitted the Mathematics Honors Program application form to the Undergraduate Program Director.

Major requirements for the Mathematics Honors Program:

• to be a mathematics major in the traditional track;
• to complete an additional 9 hours of approved seminar (3 hours) and research (6 hours);
• to have earned a 3.5 GPA in mathematics courses and a 3.0 GPA overall; and
• to present an oral or poster presentation on mathematics in an academic setting

Suggested Curriculum for the Honors Program

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tr>
<td>MA 125</td>
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<td>EH 101</td>
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<td>EH 102</td>
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<td>HY 101</td>
<td>3</td>
<td>HY 102</td>
<td>3</td>
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<tr>
<td>ARH 101</td>
<td>3</td>
<td>EC 210</td>
<td>3</td>
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<tr>
<td>FYE/FLC Course (credit hours may vary)</td>
<td>2 PHL 115</td>
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Sophomore

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<td>MA 361</td>
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<td>MA 298</td>
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Minor Course 3

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<tr>
<td>MA 398</td>
<td>1 MA 441</td>
<td>3</td>
<td>MA 440</td>
<td>3 MA Elective</td>
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<tr>
<td>MA 490</td>
<td>1 MA 398</td>
<td>1</td>
<td>PH 222</td>
<td>4 MA 490</td>
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<td>MA Elective</td>
<td>3 CMST 101</td>
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</tr>
<tr>
<td>Minor Course</td>
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</table>

Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>MA sequence</td>
<td>3 MA 490</td>
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</tr>
<tr>
<td>MA 498</td>
<td>1</td>
<td>MA 498</td>
<td>1</td>
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<tr>
<td>Minor Courses</td>
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<tr>
<td>General Electives</td>
<td>4 General Electives</td>
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</tbody>
</table>

Total credit hours: 120

Department of Music

Chair: Patrick Evans

The Department of Music offers the Bachelor of Arts degree with a major in Music. Optional concentrations in Music Education (including teacher certification) and Music Technology are also available in the Bachelor of Arts degree program. Students majoring in other fields may complete a minor in Music or Music Technology and may take music courses as electives. The Department of Music is accredited by the National Association of Schools of Music.

The Department of Music offers instruction at a variety of levels to provide a balanced musical education for a broad spectrum of students. Areas of instruction include music theory and composition, music history and literature, music performance, music education, and music technology. Courses in music theory explore the materials and techniques employed in music composition. History and literature courses present the evolution of musical styles in the context of our cultural heritage, and identify certain works that represent the highest levels of artistic achievement. Performance activities develop individual musical skills through personal creative involvement. Music Education prepares students to teach music at the nursery through high school level. Music Technology explores current developments in computers and their applications to and impact on the creation, presentation, and recording of music. Full updated information is available on the Department of Music web site at www.uab.edu/cas/music.

Music Ensembles

Students of all majors are invited to participate in a variety of musical ensembles: Blazer Band, Brass Ensembles, Chamber Singers, Computer Music Ensemble, Concert Choir, Gospel Choir, Guitar Ensemble, Jazz Combo, Jazz Ensemble, Marching Band, Opera Workshop, Orchestra, Percussion Ensemble, Steel Drum Band, Electro-Acoustic Percussion Group, Piano Ensemble, Symphony Band, Wind Symphony, Woodwind Ensembles. Other ensembles may become available depending on student interest and available resources.
Music Scholarships

The Myrtle Jones-Steele and James Darrell McAnnally Scholarships (piano), the W. Ronald Clemmons Endowed Music Scholarship and the Alys Robinson Stephens Scholarship (any instrument or voice), and other scholarships are awarded each year to qualified music majors. Choral, Opera, Wind Symphony, and Marching Band scholarships are also competitively based and are awarded to any full-time student enrolled in the university for participation in those ensembles. The Music Technology and Stevie Wonder Scholarships are awarded to students in the Music Technology program. Auditions are scheduled throughout the year for award for the next academic year. For an application or further information about music scholarships or any of the programs and activities described above, call the Department office, (205) 934-7376, or visit the departmental web page: http://www.uab.edu/cas/music/admissions.

Admittance for Music Majors

Students who wish to pursue a degree in music must first apply for admission to the UAB Office of Undergraduate Admissions. In addition, students must complete an audition before members of the music faculty for admission to the Department of Music. Auditions are scheduled throughout the year. Examinations may also be required to determine the appropriate placement of students within the curriculum. Students should contact the music office at (205) 934-7376 or email uabmusic@uab.edu (%20uabmusic@uab.edu) for specific audition requirements and to schedule a date on which they may complete this requirement. Once the audition is complete, students will be informed of one of three outcomes:

1. Admission to the Department is granted and they may enroll as a music major.
2. Admission to the Department is conditional, in which case they are admitted as a Pre-Music major. Students admitted into this preliminary program have one year to gain full admission as a music major.
3. Admission to the Department is denied.

In the case of number 2 above, students must re-audition in order to gain full admission as a music major. In the event they are not accepted, they will be advised to seek another major within the University. Once fully or conditionally admitted to the Department of Music, students will work closely with a music faculty adviser and an academic adviser within the College of Arts and Sciences, who will monitor their progress and advise in the selection of appropriate courses. All students must audition during the term preceding the expected entrance date. Admission to UAB does not guarantee admission to the Department of Music.

Piano Proficiency

All Music Majors must demonstrate basic proficiency at the piano keyboard prior to graduation. Students who are not able to pass the Piano Proficiency Examination upon entering the music degree program should enroll in Class Piano (MUP 124) until they are able to do so. Up to three semester hours of credit earned in Class Piano may be counted toward electives.

Piano Proficiency Examination Requirements

Purpose

To demonstrate functional keyboard skills at a level appropriate for students majoring in Music, Music Technology, or Music Education.

Procedure

All Music, Music Technology, and Music Education majors must pass the Piano Proficiency Examination prior to graduation. Students with considerable experience in piano may be allowed to take the examination during their first term without enrolling for Class Piano. In the event they are not successful, they should enroll in Class Piano until the proficiency exam has been passed. All other students should enroll in Class Piano and continue enrollment until the exam has been passed. Students should plan to pass the Piano Proficiency Examination at the end of their fourth semester of music study at UAB. Under no circumstances should the proficiency exam be taken later than the end of the junior year. Proficiency examinations will be scheduled during the final examination week of each semester. The instructor of MUP 125 and two other faculty members will administer the exam. Students wishing to take the proficiency exam must contact the instructor at least one week before the last day of classes to schedule a time and place for the exam. The exam will be approximately fifteen minutes in duration and will cover examples from the areas listed below. The examination may be attempted once each semester until it is passed. Music Education majors cannot enter the TEP (Teacher Education Program) without first completing this requirement.

Requirements

The student is expected to demonstrate proficiencies in the areas of sight reading, performance, technique, and related functional skills including transposing and improvising simple accompaniments.

- Sight-reading of song arrangements and/or simple solo piano literature such as a selected example from Chapter 5, pages 195-219 in Progressive Class Piano by Elmer Heerema.
- Performance:
  - A solo selected from the following list or from repertoire of comparable difficulty (memorization optional).
    - J.S. Bach - Little Preludes
    - Clementi - Sonatinas
    - Schumann - Album for the Young
  - Two patriotic songs: America and The Star-Spangled Banner. Music may be used.
- Technique:
  - All major and harmonic minor scales: Two octaves in parallel motion, hands together.
  - All major and minor arpeggios: Two octaves, hands together.
- Functional Skills:
  - Accompaniment improvisations (see Progressive Class Piano; each chapter contains sections on harmonization and improvisation).
  - Transpose a simple accompaniment or song at sight (see Progressive Class Piano, Chapter 5 pages 195-204 for examples).
- Play the progression I-IV-I $6_4$-V$7$-I hands together in all major and minor keys.

Performance Attendance Requirement

All Music majors are expected to attend Music Department concerts and programs. To satisfy the Department’s performance attendance requirement, all music majors must enroll in and successfully complete MUP 001 Performance Attendance every term of enrollment, except during the term of the capstone experience (seven terms). A grade of
P (pass) or NP (not pass) will be assigned accordingly for a student’s attendance at concerts, Music Convocation, Department-sponsored lectures, and other events approved previously by the Department. For more specific information concerning the Performance Attendance requirement, students are urged to consult the Department of Music’s Student Handbook.

Clarification for students that enter the UAB Department of Music as freshmen:

- Once you have passed Performance Attendance for a total of seven terms, your PA requirement is complete.
- You are not required to register for PA during your capstone semester.
- You are only required to register for PA during the fall and spring semesters; summer registration is not required. Summers may be used to “make up” a term if needed, but it should be noted that successful completion during summer terms is much more difficult.

Clarification for transfer students and students who change major to Music:

- If you enter UAB with no Performance Attendance credits from another approved institution, you must enroll for and successfully complete PA every semester (fall and spring) you are a Music major at UAB. For example, if you are a UAB Music major for five semesters (including your capstone semester), you must pass PA four terms.
- If you enter the UAB Department of Music with one or more credits in Performance Attendance from another approved institution, you must still pass PA for each semester (fall and spring) you are a Music major at UAB, except for the capstone semester.
- You are not required to register for PA during your capstone semester.

Ensemble Participation Requirement

Students in the B.A. degree program in Music are required to participate for credit in at least one music ensemble per term for a minimum of seven terms. To fulfill the participation requirement, instrumental students must enroll in an instrumental ensemble, and vocal/choral students must enroll in a vocal/choral ensemble. At least six of the seven terms of the required ensemble participation must include involvement in one of the following major ensembles: Concert Choir, Marching Band, Wind Symphony, Symphony Band, and Orchestra. Other ensembles may be considered major ensembles, but only for students whose major instrument is listed here: Jazz Ensemble (Bass, Guitar, and Piano), Guitar Ensemble (Guitar), and Piano Ensemble (Piano). All other ensembles are considered minor ensembles. Credit earned in excess of the seven semester hour minimum requirement stated above may be applied toward electives. Students in the Music Technology program may fulfill up to four of their required ensemble hours in Computer Music Ensemble. The remaining three hours must be in the major ensembles named above.

Clarification for students that enter the UAB Department of Music as freshmen:

- Once you have earned credit in ensembles as stated above for a total of seven terms, your ensemble participation requirement is complete.
- You are not required to register for an ensemble during your capstone semester.

Clarification for transfer students and students who change major to Music:

- If you enter UAB with no ensemble credits from another approved institution, you must participate for credit every semester (fall and spring) you are a Music major at UAB, except for the capstone semester.
- If you enter the UAB Department of Music with one or more ensemble credits from another approved institution, you must still participate for credit in an appropriate ensemble for each semester (fall and spring) you are a Music major at UAB, except for the capstone semester.
- You are not required to register for an ensemble during your capstone semester.

Music Capstones

UAB policy states: “Freshman students entering UAB in fall 2009 or after, must successfully complete the capstone course or experience required by their major program or school in order to graduate. All students graduating in 2013 or later must complete a capstone requirement.” This UAB policy is fulfilled by the Music Education and Music Technology internships for music majors with those concentrations. All other Music majors should complete MUP 497, Senior Recital/Project, during their last semester.

Teacher Certification

Students who wish to prepare for careers as music teachers in schools at the pre-college level will need to complete the requirements for the professional teaching certificate issued by the Alabama Department of Education. These requirements are met by completing the curriculum for the Bachelor of Arts in Music Education degree. Because the Alabama State Board of Education frequently changes or adds teacher certification requirements, it is essential that students stay informed about current certification requirements. Therefore, Music Education majors are required to meet with their Music adviser and an adviser in the School of Education before registration each semester.

The Alabama teaching certificate is issued for two teaching fields in music: instrumental music and vocal/choral music, both valid for kindergarten through grade twelve. Students in any of the teacher certification areas in Music Education are required to earn credit in at least one music ensemble per term for a minimum of seven terms. In fulfilling the participation requirement, instrumental students must enroll in an instrumental ensemble and vocal/choral students must enroll in a vocal/choral ensemble. At least six terms of the required ensemble participation must include involvement in the appropriate Major Ensemble (see above). Credit earned in excess of the minimum semester hour requirements for ensembles may be applied to music electives within the general studies portion of the teacher certification program.

Minor in Music or Music Technology

The minor consists of 26 semester hours of coursework in music. Students who minor in Music or Music Technology should have some prior musical experience and must audition on their performing instrument. Music courses in which a grade below C is earned may not be counted toward the minor. Minors are encouraged to participate in music ensembles throughout their academic program. Students should contact the music office at (205) 934-7376 or email uabmusic@uab.edu for specific audition requirements and to schedule an audition.
Transfer Students

A student may not apply more hours of transfer credit toward any requirement for a major or minor in music than are awarded for the equivalent courses at UAB. Excess hours in any required area may be applied as electives. Music majors must complete at least nine semester hours in music at UAB. Minors must complete at least six semester hours in music at UAB. See the section of the catalog titled “Completion of a Degree” for additional residency requirements.

The stated requirements for majors and minors in music are intended to assure a balanced academic program. In evaluating transfer credits, therefore, course content as well as the number of credits in particular areas must be considered in order to determine whether courses taken at other colleges satisfy UAB requirements. To be considered equivalent to Music Theory I–IV and Aural Skills I–IV, courses taken at another college must have included “aural skills.” If a separate “theory laboratory” was taken, both the laboratory and the related music theory course must have been satisfactorily completed. Transfer students will be required to demonstrate by examinations, auditions, and other means that their current knowledge and skills meet expected standards. Auditions will be required to determine placement in applied music courses and conducting. Transfer students majoring in music will be required to pass the UAB Piano Proficiency Examination unless written verification is provided from the appropriate official at the former college which shows that they have passed an equivalent examination at that institution.

Music majors who transfer to UAB and students who change their major from another field to music may either:

1. Complete the normal ensemble participation requirement for their degree program.
2. Participate in an ensemble during each term they are enrolled as a music major at UAB, with no fewer than three terms of participation in UAB ensembles.

In either case, the semester hour ensemble requirement must be met by transfer and/or UAB credit. Students must be officially enrolled in an ensemble in order to fulfill the participation requirement.

Music majors who transfer to UAB and students who change their major from another field to music may either:

1. Complete the normal performance attendance requirement.
2. Enroll in and successfully complete MUP 001 Performance Attendance during each term they are enrolled as a music major at UAB, with no fewer than three terms.

Courses transferred from a two-year college cannot be used to satisfy requirements for work at advanced levels (courses numbered 300 or higher). No more than 60 semester hours may be transferred from a two-year college.

Scheduling of Courses

Certain music courses are offered one time each year or once every two years, according to a Department plan. A copy of this plan may be obtained from the Department of Music. Several courses are offered irregularly, according to need.

Academic Advising

Each music major is assigned a Departmental academic adviser. The student MUST meet with his/her adviser before registering for classes each semester. Music Education majors must also meet with an academic adviser in the School of Education each semester.

Major in Music (p. 222)
Major in Music with a Music Technology Concentration (p. 225)
Major in Arts Education with a Music Concentration (Instrumental) (p. 226)
Major in Arts Education with a Music Concentration (Vocal) (p. 227)

Major Requirements For Music

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Freshman Year Experience Requirement</td>
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<tr>
<td>CAS 112  Success in College</td>
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<tr>
<td>Computer Music</td>
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<td>MU 115  Computer Music I</td>
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<tr>
<td>Music Theory and Aural Skills 1</td>
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<td>MU 221  Music Theory I</td>
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<td>&amp; MU 225 and Aural Skills II</td>
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<td>MU 321  Music Theory III</td>
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<td>&amp; MU 325 and Aural Skills IV</td>
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<tr>
<td>Music History and Literature</td>
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<td>MU 366  Music in World Cultures</td>
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<td>MU 471  Music History and Literature to 1750</td>
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<td>MU 472  Music Hist/Lit 1750-Present</td>
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<tr>
<td>MU 445  Modal Counterpoint</td>
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</tr>
<tr>
<td>MU 446  Tonal Counterpoint</td>
<td></td>
</tr>
<tr>
<td>MU 448  Orchestration</td>
<td></td>
</tr>
<tr>
<td>MU 451  Topics in Music Theory</td>
<td></td>
</tr>
<tr>
<td>MU 455  Analysis of Musical Structure</td>
<td></td>
</tr>
<tr>
<td>MU 458  Contemporary Techniques</td>
<td></td>
</tr>
<tr>
<td>MU 459  Composition II</td>
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</tr>
<tr>
<td>Music Elective</td>
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</tr>
<tr>
<td>Select three hours from the following Music (MU) or Music Performance (MUP) courses:</td>
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</tr>
<tr>
<td>MU 145  The Music Business</td>
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</tr>
<tr>
<td>MU 165  Jazz Styles: History and Apprecation</td>
<td></td>
</tr>
<tr>
<td>MU 199  Independent Studies</td>
<td></td>
</tr>
<tr>
<td>MU 211  Recording Studio Workshop</td>
<td></td>
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<tr>
<td>MU 235  English and Italian Diction</td>
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<tr>
<td>MU 236  French and German Diction</td>
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<tr>
<td>MU 245  Recording Technology I</td>
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<tr>
<td>MU 261  Introduction to Music Literature</td>
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<td>MU 299  Independent Studies</td>
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<td>MU 330  Marching Band Techniques</td>
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<td>MU 331  Band Literature</td>
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<td>Computer Music II</td>
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<td>Computer Music III</td>
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<td>MU 345</td>
<td>Recording Technology II</td>
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<td>Composition I</td>
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<td>MU 364</td>
<td>American Music</td>
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<td>MU 365</td>
<td>The Evolution of Jazz</td>
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<td>MU 367</td>
<td>Introduction to Ethnomusicology</td>
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<td>MU 399</td>
<td>Independent Studies</td>
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<tr>
<td>MU 429</td>
<td>Advanced Conducting/Techniques</td>
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<td>MU 441</td>
<td>Multimedia Productions</td>
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<td>MU 445</td>
<td>Modal Counterpoint</td>
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<td>MU 446</td>
<td>Tonal Counterpoint</td>
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<td>Orchestration</td>
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<td>Topics in Music Theory</td>
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<td>MU 455</td>
<td>Analysis of Musical Structure</td>
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<td>MU 458</td>
<td>Contemporary Techniques</td>
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<td>MU 459</td>
<td>Composition II</td>
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<tr>
<td>MU 461</td>
<td>Seminar in Music Literature</td>
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<td>MU 499</td>
<td>Independent Studies</td>
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<td>MUP 140</td>
<td>Private Lessons: Voice</td>
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<td>Private Lessons: Piano</td>
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<td>MUP 161</td>
<td>Private Lessons: Flute</td>
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<tr>
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<td>Private Lessons: Oboe</td>
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<tr>
<td>MUP 163</td>
<td>Private Lessons: Clarinet</td>
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<tr>
<td>MUP 164</td>
<td>Private Lessons: Saxophone</td>
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<td>MUP 171</td>
<td>Private Lessons: Trumpet</td>
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<tr>
<td>MUP 172</td>
<td>Private Lessons: French Horn</td>
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<tr>
<td>MUP 173</td>
<td>Private Lessons: Trombone</td>
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<td>Women's Chorale</td>
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<td>Private Lessons: Piano</td>
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<td>MUP 353</td>
<td>Piano Ensemble</td>
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<td>Private Lessons: Flute</td>
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<td>MUP 362</td>
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<td>MUP 394</td>
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<td>MUP 395</td>
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<tr>
<td>MUP 420</td>
<td>Opera Workshop</td>
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<td>Private Lessons: Voice</td>
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<td>Private Lessons: French Horn</td>
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<td>MUP 474</td>
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<td>MUP 475</td>
<td>Private Lessons: Tuba</td>
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</tr>
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<td>MUP 494</td>
<td>Private Lessons: Bass</td>
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### Music History and Literature Electives
Select one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MU 261</td>
<td>Introduction to Music Literature</td>
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<tr>
<td>MU 364</td>
<td>American Music</td>
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<tr>
<td>MU 365</td>
<td>The Evolution of Jazz</td>
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<tr>
<td>MU 461</td>
<td>Seminar in Music Literature</td>
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### Conducting

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MU 329</td>
<td>Conducting</td>
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</tbody>
</table>

### Music Ensemble

- Major Ensembles: Take at least 6 hours
  - MUP 220: Concert Choir
  - MUP 225: Symphony Band
  - MUP 230: Guitar Ensemble
  - MUP 231: Orchestra
  - MUP 232: Marching Band
  - MUP 235: Wind Symphony
  - MUP 236: Jazz Ensemble
  - MUP 233: Piano Ensemble
- Minor Ensembles
  - MUP 110: Gospel Choir
  - MUP 221: Jazz Combo
  - MUP 234: Percussion Ensemble
  - MUP 237: Blazer Band
  - MUP 320: Chamber Singers
  - MUP 321: Women's Chorale
  - MUP 341: Computer Music Ensemble
  - MUP 420: Opera Workshop

### Applied Music
Select six hours from the following courses designated "Private Lessons" at the 200 level or higher (each course may be repeated for credit."

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUP 240</td>
<td>Private Lessons: Voice</td>
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<td>MUP 250</td>
<td>Private Lessons: Piano</td>
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<td>MUP 253</td>
<td>Private Lessons: Jazz Piano</td>
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<td>MUP 261</td>
<td>Private Lessons: Flute</td>
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<td>MUP 262</td>
<td>Private Lessons: Oboe</td>
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<td>MUP 263</td>
<td>Private Lessons: Clarinet</td>
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<td>Private Lessons: Saxophone</td>
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<td>MUP 266</td>
<td>Private Lessons: Bassoon</td>
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<td>MUP 267</td>
<td>Private Lessons: Jazz Saxophone</td>
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<td>MUP 271</td>
<td>Private Lessons: Trumpet</td>
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<td>Private Lessons: French Horn</td>
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<td>Private Lessons: Trombone</td>
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<td>Private Lessons: Tuba</td>
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<td>Private Lessons: Violin</td>
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<td>MUP 292</td>
<td>Private Lessons: Viola</td>
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<td>MUP 293</td>
<td>Private Lessons: Cello</td>
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<td>MUP 294</td>
<td>Private Lessons: Bass</td>
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<td>MUP 295</td>
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<td>Private Lessons: Violin</td>
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<td>Private Lessons: Cello</td>
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<td>Private Lessons: Guitar</td>
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<td>MUP 497</td>
<td>Senior Recital/Project</td>
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### Piano Proficiency

<table>
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<tr>
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### Performance Attendance (take for seven terms)

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<td>Performance Attendance</td>
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### Music Capstone

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<tbody>
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### Total Hours

1. Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.

2. Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, "Major Ensembles" and "Minor Ensembles." Music majors must complete at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble.
## Major Requirements for Music with a Concentration in Music Technology

### Requirements

#### Freshman Year Experience Requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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#### Music Theory and Aural Skills

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#### Music Theory Elective

Select three hours from the following courses:

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<td>MU 451</td>
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<td>MU 455</td>
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#### Music History and Literature

<table>
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#### Music Technology

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<td>MU 245</td>
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<td>MU 341</td>
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<tr>
<td>MU 345</td>
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<tr>
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#### Music Ensembles

Major Ensembles: Take at least 6 hours

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<td>MUP 225</td>
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Minor Ensembles:

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### Applied Music

Select four hours from Music Performance (MUP) courses designated “Private Lessons” at the 200-level or higher (each course may be repeated for credit)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUP 240</td>
<td>Voice</td>
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<td>MUP 250</td>
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<td>MUP 253</td>
<td>Jazz Piano</td>
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<tr>
<td>MUP 261</td>
<td>Flute</td>
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<td>MUP 262</td>
<td>Oboe</td>
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<tr>
<td>MUP 263</td>
<td>Clarinet</td>
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<tr>
<td>MUP 264</td>
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<td>MUP 372</td>
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<td>MUP 373</td>
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<td>MUP 472</td>
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<tr>
<td>MUP 473</td>
<td>Trombone</td>
</tr>
<tr>
<td>MUP 474</td>
<td>Euphonium</td>
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</table>
MUP 475  Private Lessons: Tuba
MUP 480  Private Lessons: Percussion
MUP 491  Private Lessons: Violin
MUP 492  Private Lessons: Viola
MUP 493  Private Lessons: Cello
MUP 494  Private Lessons: Bass
MUP 495  Private Lessons: Guitar

Piano Proficiency
MUP 125  Piano Proficiency  0

Performance Attendance (take for seven terms)
MUP 001  Performance Attendance  0

Music Technology Capstone
MU 498  Music Technology Internship  1-2

Total Hours  55-56

1 Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.

2 Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, "Major Ensembles" and "Minor Ensembles." Students completing the Music Technology concentration have two options for fulfilling this requirement:
   - Option A requires at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble
   - Option B allows students to take up to four hours in the Minor Ensemble course MUP 341 Computer Music Ensemble, with the remaining hours in Major Ensembles.

Major Requirements for Arts Education with Concentration in Music (Instrumental)

Requirements Hours
Freshman Year Experience Requirement
CAS 112  Success in College  1

Public Speaking
CMST 101  Public Speaking  3

Psychology
PY 101  Introduction to Psychology  2  3

Computer Music
MU 115  Computer Music I  3

Music Theory and Aural Skills  3
MU 221  Music Theory I  3
MU 224  Aural Skills I  1
MU 222  Music Theory II  3
MU 225  Aural Skills II  1
MU 321  Music Theory III  3
MU 324  Aural Skills III  1
MU 322  Music Theory IV  3
MU 325  Aural Skills IV  1

Music History and Literature
MU 366  Music in World Cultures  2
MU 471  Music History and Literature to 1750  3
MU 472  Music Hist/Lit 1750-Present  3

Conducting
MU 329  Conducting  2

MU 429  Advanced Conducting/Techniques  2

Music Ensemble  4
Major Ensemble: Take at least 6 hours
MUP 225  Symphony Band
MUP 231  Orchestra
MUP 232  Marching Band
MUP 235  Wind Symphony
Minor Ensemble: Take remaining hours
MUP 221  Jazz Combo
MUP 230  Guitar Ensemble
MUP 234  Percussion Ensemble
MUP 236  Jazz Ensemble
MUP 237  Blazer Band
MUP 341  Computer Music Ensemble
MUP 353  Piano Ensemble

Applied Music
Select seven hours from Music Performance (MUP) courses designated "Private Lessons" at the 200-level or higher (each course may be repeated for credit). Four of the seven credit hours must be at the 300 level or higher:

MUP 250  Private Lessons: Piano
MUP 261  Private Lessons: Flute
MUP 262  Private Lessons: Oboe
MUP 263  Private Lessons: Clarinet
MUP 264  Private Lessons: Saxophone
MUP 266  Private Lessons: Bassoon
MUP 271  Private Lessons: Trumpet
MUP 272  Private Lessons: French Horn
MUP 273  Private Lessons: Trombone
MUP 274  Private Lessons: Euphonium
MUP 275  Private Lessons: Tuba
MUP 280  Private Lessons: Percussion
MUP 291  Private Lessons: Violin
MUP 292  Private Lessons: Viola
MUP 293  Private Lessons: Cello
MUP 294  Private Lessons: Bass
MUP 295  Private Lessons: Guitar
MUP 350  Private Lessons: Piano
MUP 361  Private Lessons: Flute
MUP 362  Private Lessons: Oboe
MUP 363  Private Lessons: Clarinet
MUP 364  Private Lessons: Saxophone
MUP 366  Private Lessons: Bassoon
MUP 371  Private Lessons: Trumpet
MUP 372  Private Lessons: French Horn
MUP 373  Private Lessons: Trombone
MUP 374  Private Lessons: Euphonium
MUP 375  Private Lessons: Tuba
MUP 380  Private Lessons: Percussion
MUP 391  Private Lessons: Violin
MUP 392  Private Lessons: Viola
MUP 393  Private Lessons: Cello
MUP 394  Private Lessons: Bass
MUP 395  Private Lessons: Guitar
MUP 450  Private Lessons: Piano
MUP 461  Private Lessons: Flute
MUP 462  Private Lessons: Oboe
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<td>MUP 464</td>
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<td>MUP 494</td>
<td>Private Lessons: Bass</td>
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<tr>
<td>MUP 495</td>
<td>Private Lessons: Guitar</td>
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</tbody>
</table>

**Piano Proficiency**
- MUP 125 Piano Proficiency

**Performance Attendance (take for seven terms)**
- MUP 001 Performance Attendance

**Applied Methods**
- MUP 122 Class Voice
- MUP 132 Class Woodwinds
- MUP 134 Class Brass
- MUP 136 Class Percussion
- MUP 138 Class Strings

**Education**
- This course must be taken PRIOR TO admission to TEP:
  - EDU 200 Education as a Profession
- Students may take NO MORE THAN FOUR of the following courses PRIOR to admission to TEP. Students who ignore this admonition assume responsibility for their own mistakes.
  - ECY 300 Survey of Special Education
  - EDF 362 Foundations of Education I: Social, Historical, Philosophical
  - EPR 363 Foundations of Education II: Psychological
  - EHS 401 Secondary Education Curriculum and Methods
  - EHS 402 Practicum I
  - EHS 497 Special Problems in Education
  - EMU 402 Methods of Teaching Music N-6
  - EMU 404 Methods of Teaching Music in Secondary Education
  - EPR 410 Measurement and Evaluation in Education

**Internship**
- These courses must be taken AFTER admission to TEP.
  - EMU 490 Internship in Music Education Students must take EMU 490 and EMU 499 in the same term.
  - EMU 499 Internship Seminar in Music Education N - 12 Students must take EMU 490 and EMU 499 in the same term.

**Total Hours**: 95

1. Completing this requirement will also count toward Core Curriculum Area II.
2. Completing this requirement will also count toward Core Curriculum Area IV.
3. Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.
4. Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, Major Ensembles and Minor Ensembles. Music majors must complete at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble.

**Additional Requirements for Teacher Certified Programs**

**Teacher Education Program**
A student must be admitted to the Teacher Education Program and complete all of the requirements.

**Major Requirements for Arts Education with a Concentration in Music (Vocal)**

**Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<td>Freshman Year Experience Requirement</td>
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<tr>
<td>CAS 112 Success in College</td>
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<tr>
<td>Public Speaking</td>
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<td>CMST 101 Public Speaking</td>
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<td>Psychology</td>
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<td>PY 101 Introduction to Psychology</td>
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<td>Computer Music</td>
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<tr>
<td>MU 115 Computer Music I</td>
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</tr>
<tr>
<td>Music Theory and Aural Skills</td>
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<tr>
<td>MU 221 Music Theory I</td>
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<tr>
<td>MU 224 Aural Skills I</td>
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<tr>
<td>MU 222 Music Theory II</td>
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<td>MU 225 Aural Skills II</td>
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<td>MU 321 Music Theory III</td>
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<td>MU 324 Aural Skills III</td>
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<td>MU 325 Aural Skills IV</td>
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<td>Music History and Literature</td>
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<td>MU 366 Music in World Cultures</td>
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<td>MU 471 Music History and Literature to 1750</td>
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<td>MU 472 Music Hist/Lit 1750-Present</td>
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<tr>
<td>Conducting</td>
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<td>MU 329 Conducting</td>
<td>2</td>
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<td>MU 429 Advanced Conducting/Techniques</td>
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<td>Music Ensemble</td>
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<tr>
<td>MU 220 Concert Choir</td>
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<td>Minor Ensemble</td>
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<tr>
<td>MUP 110 Gospel Choir</td>
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<tr>
<td>MUP 320 Chamber Singers</td>
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</tr>
<tr>
<td>MUP 321 Women’s Chorale</td>
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<tr>
<td>MUP 420 Opera Workshop</td>
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</table>

**Applied Music**
Select seven hours from the following courses (each course may be repeated for credit). Four credit hours must be at the 300 level or higher.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUP 240</td>
<td>Private Lessons: Voice</td>
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<td>MUP 250</td>
<td>Private Lessons: Piano</td>
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<tr>
<td>MUP 340</td>
<td>Private Lessons: Voice</td>
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<td>MUP 350</td>
<td>Private Lessons: Piano</td>
</tr>
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<td>MUP 440</td>
<td>Private Lessons: Voice</td>
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</table>
MUP 450 Private Lessons: Piano

Piano Proficiency
MUP 125 Piano Proficiency 0

Performance Attendance (take for seven terms)
MUP 001 Performance Attendance 0

Applied Methods
MUP 132 Class Woodwinds 1
MUP 134 Class Brass 1
MUP 136 Class Percussion 1
MUP 138 Class Strings 1

Education
This course must be taken PRIOR TO admission to TEP:
EDU 200 Education as a Profession 3

Take NO MORE THAN FOUR of the following courses PRIOR to admission to TEP. Students who ignore this admonition assume responsibility for their own mistakes.
ECY 300 Survey of Special Education 3
EDF 362 Foundations of Education I: Social, Historical, Philosophical 3
EHS 401 Secondary Education Curriculum and Methods 3
EHS 402 Practicum I 1
EHS 497 Special Problems in Education 3
EMU 402 Methods of Teaching Music N-6 3
EMU 404 Methods of Teaching Music in Secondary Education 3
EPR 410 Measurement and Evaluation in Education 3

Internship
These courses must be taken AFTER admission to TEP.
EMU 490 Internship in Music Education 9
EMU 499 Internship Seminar in Music Education N - 12 1

Total Hours 94

1 Completing this requirement will also count toward Core Curriculum Area II.
2 Completing this requirement will also count toward Core Curriculum Area IV.
3 Each level of Music Theory and Aural Skills is co-requisite, i.e., they must be taken at the same time. A grade of "C" or better must be earned in order to proceed to the next level. After this is accomplished, a student may retake one of the two co-requisite courses for the purpose of improving their grade.
4 Students must participate in at least one semester hour of Music Ensemble per term for a minimum of seven terms. Music Ensembles are divided into two groups, Major Ensembles and Minor Ensembles. Music majors must complete at least six hours in a Major Ensemble, with the remaining hour in either a Major or Minor Ensemble.

Additional Requirements for Teacher Certified Programs
Teacher Education Program
A student must be admitted to the Teacher Education Program and complete all of the requirements.

Proposed Program of Study for a Major in Music

Freshman
First Term Hours Second Term Hours
CAS 112 1 EH 102 3
EH 101 3 Area IV History course 3
MA 110 or 105 3 MU 120 (or other Fine Arts course) 3
MU 221 3 MU 222 3
MU 224 1 MU 225 1
MUP 001 0 MUP 001 0
MUP 124 1 MUP 124 1
Applied Lessons 1 Applied Lessons 1
Ensemble 1 Ensemble 1

14 16

Sophomore
First Term Hours Second Term Hours
Area II Literature course 3 Area II or IV course to complete sequence 3
Area III Science course with Lab 4 Area III: Natural Science with Lab 4
MU 115 3 MU 322 3
MU 321 3 MU 325 1
MU 324 1 MU 366 2
MUP 001 0 MUP 001 0
MU 124 1 MUP 125 0
Applied Lessons 1 Applied Lessons 1
Ensemble 1 Ensemble 1

17 15

Junior
First Term Hours Second Term Hours
Area IV Social/Behavioral Science course 3 Area II Humanities course 3
MU 329 2 Area IV HY or SBS course 3
Advanced Theory course 3 Area II or IV course 3
MU 471 3 MU 472 3
MUP 001 0 MUP 001 0
Applied Lessons 2 Applied Lessons 2
Ensemble 1 Ensemble 1

14 15

Senior
First Term Hours Second Term Hours
Electives 12 Music History & Lit Elective 3
MUP 001 0 Electives 9
Applied Lessons 2 Music Elective (if needed) 2
Ensemble 1 Applied Lessons 2
MUP 497 0

15 14

Total credit hours: 120

Proposed Program of Study for a Major in Music Education (Choral)

Freshman
First Term Hours Second Term Hours
CAS 112 1 EH 102 3
MUP 497 0

15 14
Music Education (Instrumental)

Proposed Program of Study for a Major in Applied Lessons

<table>
<thead>
<tr>
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<th>Winter Term</th>
<th>Spring Term</th>
<th>Total Hours</th>
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<td>MU 224</td>
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<td>MU 221</td>
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Sophomore

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Junior

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Senior

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<thead>
<tr>
<th>Course</th>
<th>Fall Term</th>
<th>Winter Term</th>
<th>Spring Term</th>
<th>Total Hours</th>
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<tbody>
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<td>EHS 401</td>
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<td>EMU 404</td>
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<tr>
<td>Applied Lessons</td>
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Total credit hours: 130

Proposed Program of Study for a Major in Music Technology

Freshman

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<tbody>
<tr>
<td>CAS 112</td>
<td>EH 101</td>
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<td>MU 120</td>
<td>MU 222</td>
<td>3 MU 222</td>
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<td>Applied Lessons</td>
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<th>Fall Term</th>
<th>Winter Term</th>
<th>Spring Term</th>
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<tbody>
<tr>
<td>CAS 112</td>
<td>EH 101</td>
<td>1 EH 102</td>
<td>3 Area III Mathematics course: MA 110, 105 or above</td>
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<tr>
<td>MU 120</td>
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<td>3 MU 222</td>
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<tbody>
<tr>
<td>CAS 112</td>
<td>EH 101</td>
<td>1 EH 102</td>
<td>3 Area III Mathematics course: MA 110, 105 or above</td>
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<tr>
<td>MU 120</td>
<td>MU 222</td>
<td>3 MU 222</td>
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<tr>
<td>Applied Lessons</td>
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<th>Course</th>
<th>Fall Term</th>
<th>Winter Term</th>
<th>Spring Term</th>
<th>Total Hours</th>
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<td>MU 120</td>
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<td>3 MU 222</td>
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### Sophomore

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<tr>
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<tr>
<td>Area II Literature course</td>
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<td>Area IV History course</td>
<td>3 Area II or Area IV Elective</td>
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<tr>
<td>MU 245</td>
<td>3 MU 322</td>
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<td>MU 321</td>
<td>3 MU 325</td>
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<td>MU 324</td>
<td>1 MU 345</td>
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| Total credit hours: 16 | 15 |

### Junior

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<td>Area III Science course with Lab</td>
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<tr>
<td>Area IV SBS Elective</td>
<td>3 Area III Science course with Lab</td>
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<td>MU 341</td>
<td>3 Area IV Elective</td>
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<td>MU 366</td>
<td>2 MU 342</td>
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<tr>
<td>Advanced Theory</td>
<td>3 MU 472</td>
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<td>MUP 001</td>
<td>0 MUP 001</td>
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| Total credit hours: 16 | 15 |

### Senior

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<td>MU 441</td>
<td>3 MU 498</td>
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<td>Electives (any discipline)</td>
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| Total credit hours: 14 | 12 |

### Minor Requirements for Music

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<tr>
<td>MU 221</td>
<td>Music Theory I</td>
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<td>MU 222</td>
<td>Music Theory II</td>
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<tr>
<td><strong>Aural Skills</strong></td>
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<tr>
<td>MU 224</td>
<td>Aural Skills I</td>
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<td>MU 225</td>
<td>Aural Skills II</td>
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<tr>
<td><strong>Music History and Literature</strong></td>
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<td>MU 471</td>
<td>Music History and Literature to 1750</td>
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<td>MU 472</td>
<td>Music Hist/Lit 1750-Present</td>
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<td><strong>Music Ensemble</strong></td>
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<td>Select six hours from the following courses (all courses may be repeated for credit)</td>
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<tr>
<td>MUP 110</td>
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<td>MUP 220</td>
<td>Concert Choir</td>
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<td>MUP 120</td>
<td>University Chorus</td>
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<tr>
<td>MUP 221</td>
<td>Jazz Combo</td>
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<tr>
<td>MUP 225</td>
<td>Symphony Band</td>
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<tr>
<td>MUP 230</td>
<td>Guitar Ensemble</td>
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<tr>
<td>MUP 231</td>
<td>Orchestra</td>
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<tr>
<td>MUP 232</td>
<td>Marching Band</td>
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<tr>
<td>MUP 234</td>
<td>Percussion Ensemble</td>
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<tr>
<td>MUP 235</td>
<td>Wind Symphony</td>
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<td>Jazz Ensemble</td>
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<tr>
<td>MUP 237</td>
<td>Blazer Band</td>
</tr>
<tr>
<td>MUP 320</td>
<td>Chamber Singers</td>
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<tr>
<td>MUP 321</td>
<td>Women’s Chorale</td>
</tr>
<tr>
<td>MUP 341</td>
<td>Computer Music Ensemble</td>
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<tr>
<td>MUP 353</td>
<td>Piano Ensemble</td>
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<tr>
<td>MUP 420</td>
<td>Opera Workshop</td>
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</tbody>
</table>

Select three hours from Music Performance (MUP) courses designated "Private Lessons" (each course may be repeated for credit) 3

| MUP 140 | Private Lessons: Voice | |
| MUP 150 | Private Lessons: Piano | |
| MUP 161 | Private Lessons: Flute | |
| MUP 162 | Private Lessons: Oboe | |
| MUP 163 | Private Lessons: Clarinet | |
| MUP 164 | Private Lessons: Saxophone | |
| MUP 166 | Private Lessons: Bassoon | |
| MUP 171 | Private Lessons: Trumpet | |
| MUP 172 | Private Lessons: French Horn | |
| MUP 173 | Private Lessons: Trombone | |
| MUP 174 | Private Lessons: Euphonium | |
| MUP 175 | Private Lessons: Tuba | |
| MUP 180 | Private Lessons: Percussion | |
| MUP 191 | Private Lessons: Violin | |
| MUP 192 | Private Lessons: Viola | |
| MUP 193 | Private Lessons: Cello | |
| MUP 194 | Private Lessons: Bass | |
| MUP 195 | Private Lessons: Guitar | |
| MUP 240 | Private Lessons: Voice | |
| MUP 250 | Private Lessons: Piano | |
| MUP 253 | Private Lessons: Jazz Piano | |
| MUP 261 | Private Lessons: Flute | |
| MUP 262 | Private Lessons: Oboe | |
| MUP 263 | Private Lessons: Clarinet | |
| MUP 264 | Private Lessons: Saxophone | |
| MUP 266 | Private Lessons: Bassoon | |
| MUP 267 | Private Lessons: Jazz Saxophone | |
| MUP 271 | Private Lessons: Trumpet | |
| MUP 272 | Private Lessons: French Horn | |
| MUP 273 | Private Lessons: Trombone | |
| MUP 274 | Private Lessons: Euphonium | |
| MUP 275 | Private Lessons: Tuba | |
| MUP 276 | Private Lessons: Jazz Trumpet | |
| MUP 277 | Private Lessons: Jazz Trombone | |
| MUP 280 | Private Lessons: Percussion | |
| MUP 281 | Private Lessons: Jazz Percussion | |
| MUP 291 | Private Lessons: Violin | |
| MUP 292 | Private Lessons: Viola | |
| MUP 293 | Private Lessons: Cello | |
| MUP 294 | Private Lessons: Bass | |
| MUP 295 | Private Lessons: Guitar | |
| MUP 296 | Private Lessons: Jazz Guitar | |
| MUP 297 | Private Lessons: Jazz Bass | |
| MUP 340 | Private Lessons: Voice | |
| MUP 350 | Private Lessons: Piano | |
| MUP 361 | Private Lessons: Flute | |
### MUP 362
Private Lessons: Oboe

### MUP 363
Private Lessons: Clarinet

### MUP 364
Private Lessons: Saxophone

### MUP 366
Private Lessons: Bassoon

### MUP 371
Private Lessons: Trumpet

### MUP 372
Private Lessons: French Horn

### MUP 373
Private Lessons: Trombone

### MUP 374
Private Lessons: Euphonium

### MUP 375
Private Lessons: Tuba

### MUP 380
Private Lessons: Percussion

### MUP 391
Private Lessons: Violin

### MUP 392
Private Lessons: Viola

### MUP 393
Private Lessons: Cello

### MUP 394
Private Lessons: Bass

### MUP 395
Private Lessons: Guitar

### MUP 440
Private Lessons: Voice

### MUP 450
Private Lessons: Piano

### MUP 461
Private Lessons: Flute

### MUP 462
Private Lessons: Oboe

### MUP 463
Private Lessons: Clarinet

### MUP 464
Private Lessons: Saxophone

### MUP 466
Private Lessons: Bassoon

### MUP 471
Private Lessons: Trumpet

### MUP 472
Private Lessons: French Horn

### MUP 473
Private Lessons: Trombone

### MUP 474
Private Lessons: Euphonium

### MUP 475
Private Lessons: Tuba

### MUP 480
Private Lessons: Percussion

### MUP 491
Private Lessons: Violin

### MUP 492
Private Lessons: Viola

### MUP 493
Private Lessons: Cello

### MUP 494
Private Lessons: Bass

### MUP 495
Private Lessons: Guitar

### Music Elective
Select three hours from the following courses: 3

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<th>Course Code</th>
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<td>The Music Business</td>
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<tr>
<td>MU 165</td>
<td>Jazz Styles: History and Appreciation</td>
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<tr>
<td>MU 199</td>
<td>Independent Studies</td>
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<tr>
<td>MU 211</td>
<td>Recording Studio Workshop</td>
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<td>MU 245</td>
<td>Recording Technology I</td>
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<tr>
<td>MU 261</td>
<td>Introduction to Music Literature</td>
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<td>MU 299</td>
<td>Independent Studies</td>
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<td>MU 330</td>
<td>Marching Band Techniques</td>
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<td>MU 331</td>
<td>Band Literature</td>
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<td>MU 341</td>
<td>Computer Music II</td>
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<td>MU 342</td>
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<td>MU 345</td>
<td>Recording Technology II</td>
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<td>MU 359</td>
<td>Composition I</td>
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<td>MU 364</td>
<td>American Music</td>
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<td>MU 365</td>
<td>The Evolution of Jazz</td>
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<td>MU 366</td>
<td>Music in World Cultures</td>
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<td>MU 367</td>
<td>Introduction to Ethnomusicology</td>
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<td>MU 429</td>
<td>Advanced Conducting/Techniques</td>
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<td>MU 441</td>
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<td>MU 445</td>
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<td>MUP 492</td>
<td>Private Lessons: Viola</td>
</tr>
<tr>
<td>MUP 493</td>
<td>Private Lessons: Cello</td>
</tr>
<tr>
<td>MUP 494</td>
<td>Private Lessons: Bass</td>
</tr>
<tr>
<td>MUP 495</td>
<td>Private Lessons: Guitar</td>
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</table>

Total Hours: 26

**Minor Requirements for Music Technology**

**Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MU 221</td>
<td>Music Theory I</td>
<td>3</td>
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<tr>
<td>MU 222</td>
<td>Music Theory II</td>
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</tr>
<tr>
<td>MU 244</td>
<td>Aural Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MU 225</td>
<td>Aural Skills II</td>
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**Music History and Literature**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MU 366</td>
<td>Music in World Cultures</td>
<td>3</td>
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</tbody>
</table>

**Music Ensemble**

Select four hours from the following courses (all courses may be repeated for credit):

- MUP 110 Gospel Choir
- MUP 220 Concert Choir
- MUP 221 Jazz Combo
- MUP 225 Symphony Band
- MUP 230 Guitar Ensemble
- MUP 231 Orchestra
- MUP 232 Marching Band
- MUP 234 Percussion Ensemble
- MUP 235 Wind Symphony
- MUP 236 Jazz Ensemble
- MUP 237 Blazer Band
- MUP 320 Chamber Singers
- MUP 321 Women's Chorale
- MUP 341 Computer Music Ensemble
- MUP 353 Piano Ensemble
- MUP 420 Opera Workshop

**Applied Music**

Select two hours from the following courses:

- MUP 140 Private Lessons: Voice
- MUP 150 Private Lessons: Piano
- MUP 161 Private Lessons: Flute
- MUP 162 Private Lessons: Oboe
- MUP 163 Private Lessons: Clarinet
- MUP 164 Private Lessons: Saxophone
- MUP 166 Private Lessons: Bassoon
- MUP 171 Private Lessons: Trumpet
- MUP 172 Private Lessons: French Horn
- MUP 173 Private Lessons: Trombone
- MUP 174 Private Lessons: Euphonium
- MUP 175 Private Lessons: Tuba
- MUP 180 Private Lessons: Percussion
- MUP 191 Private Lessons: Violin
- MUP 192 Private Lessons: Viola
- MUP 193 Private Lessons: Cello
- MUP 194 Private Lessons: Bass
- MUP 195 Private Lessons: Guitar
- MUP 240 Private Lessons: Voice
- MUP 250 Private Lessons: Piano
- MUP 253 Private Lessons: Jazz Piano
- MUP 261 Private Lessons: Flute
- MUP 262 Private Lessons: Oboe
- MUP 263 Private Lessons: Clarinet
- MUP 264 Private Lessons: Saxophone
- MUP 266 Private Lessons: Bassoon
- MUP 267 Private Lessons: Jazz Saxophone
- MUP 271 Private Lessons: Trumpet
- MUP 272 Private Lessons: French Horn
- MUP 273 Private Lessons: Trombone
- MUP 274 Private Lessons: Euphonium
- MUP 275 Private Lessons: Tuba
- MUP 276 Private Lessons: Jazz Trumpet
- MUP 277 Private Lessons: Jazz Trombone
- MUP 280 Private Lessons: Percussion
- MUP 281 Private Lessons: Jazz Percussion
- MUP 291 Private Lessons: Violin
- MUP 292 Private Lessons: Viola
- MUP 293 Private Lessons: Cello
Music Honors Program

Purpose
The Music Honors Program is designed for highly talented, self-motivated students majoring in music. Through individual instruction and mentoring by the student’s applied faculty member, he/she will present a full public recital on his/her major instrument or present a series of original compositions. In the Department of Music this program is also referred to as the Young Performing Artists Program.

Eligibility
Acceptance to the Music Honors Program requires the student to:

• Be a music major.
• Be of at least sophomore standing in music.
• Be admitted to 300-level private lessons.
• Earn and maintain an overall GPA of 3.0 and a minimum cumulative GPA of 3.25 in all music courses.

Requirements

• Have permission of his/her applied instructor.
• Be recommended and accepted to the program by members of the music faculty by way of an end-of-semester jury.
• Present a 30 minute (junior year) and/or 1 hour (senior year) preliminary recital before the music faculty. Permission from the faculty must be granted before proceeding to a public recital.
• In consultation with the applied teacher, arrange and program a recital, write program notes, and assemble the program.
• Present a 30 minute (junior year) and/or 1 hour (senior year) public recital.

Benefits
Students will receive valuable individual attention and a public recital sponsored by the Department of Music. On most occasions, the performance is accompanied by a professional accompanist and is recorded onto compact disc. This recording is of great use to students when they are applying for music positions, graduate schools, fellowships, and assistantships. Students who complete the program will graduate “With Honors in Music.”

Contact
For more information concerning the Department of Music Honors Program, please contact:

Dr. William Price, Coordinator
Young Performing Artists Program
234 Hulsey Center
Campus Phone: (205) 934-8056
E-mail: pricewm@uab.edu

Dr. Paul Mosteller, Associate Chair
Department of Music
234 Hulsey Center
Campus Phone: (205) 934-6420
E-mail: songman@uab.edu

Department of Philosophy

Chair: Gregory Pence

The Department of Philosophy offers the Bachelor of Arts degree with a major in philosophy, as well as a minor in philosophy and course offerings for non-majors and non-minors. The department also sponsors an interdisciplinary minor in Philosophy and Law, described below.

The program for majors is built around two aims. First, the major offers study of the methods, problems, and history of philosophy. Second, it exposes the student to analysis of contemporary moral issues and philosophical puzzles. Throughout the major goal is to teach students to present and analyze critically arguments, both orally and in writing.
Graduates of the department have pursued such careers as teaching, law, medicine, counseling, and business.

Further information about the department and its programs may be obtained at the department’s website: www.uab.edu/philosophy.

There are three different ways in which to major in philosophy at UAB:

- The general track.
- The individually designed track.
- The honors track.

When a student first declares a major in philosophy, he or she is classified in the general track. Students remain in this track unless they request entry into the individually designed track or are successfully admitted upon request into the honors track. These requests are made of the department chair.

The general track appeals to students with broad philosophic interests as well as to students desiring a second major or who need a flexible class schedule. The individually designed track is designed in consultation with a faculty advisor in areas such as applied ethics, bioethics, history of ideas, law and society, religion, and science and the modern world. Students graduating in the honors track graduate “With Honors in Philosophy.”

Major Requirements for Philosophy

**Requirements**

<table>
<thead>
<tr>
<th>Philosophy Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Select 10 Philosophy (PHL) courses, with 7 courses at the 200-level or higher, 3 courses must be at the 400-level, one of which must be a Capstone--PHL 490, 491, or 492.</td>
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<tr>
<td>PHL 100 Introduction to Philosophy</td>
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<td>PHL 115 Contemporary Moral Issues</td>
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<td>PHL 116 Bioethics</td>
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<td>PHL 120 Practical Reasoning</td>
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<td>PHL 125 Introduction to Ethics</td>
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<td>PHL 135 The Rule of Law</td>
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<td>PHL 203 Philosophy of Religion</td>
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<td>PHL 204 Philosophy and Christianity</td>
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<td>PHL 205 Existentialism</td>
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<tr>
<td>PHL 215 History of Moral Philosophy</td>
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<td>PHL 216 Intermediate Bioethics</td>
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<td>PHL 220 Introduction to Symbolic Logic</td>
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<td>PHL 230 Social and Political Philosophy</td>
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<td>PHL 232 Classical Political Thought</td>
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<td>PHL 233 Modern Political Theory</td>
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<td>PHL 239 Classical Thought of India China and the West</td>
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<td>PHL 240 History of Philosophy: Socrates Plato and Aristotle</td>
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<td>PHL 270 Science, Knowledge, and Reality</td>
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<td>PHL 290 Topics in Philosophy</td>
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<td>PHL 291 Topics in Philosophy</td>
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<td>PHL 293 Topics in Philosophy</td>
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<td>PHL 309 Teaching Practicum</td>
<td>3</td>
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<td>PHL 311 Philosophy of Science</td>
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<td>PHL 312 Philosophy of Biology</td>
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<td>PHL 314 Philosophy and Feminism</td>
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<tr>
<td>PHL 315 Ethics: Theories of Good and Evil</td>
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Total Hours: 30

**Grade Requirement**

No course in which a grade below "C" has been earned may be counted toward the major.

**Proposed Program of Study for a Major in Philosophy**

### Freshman

**First Term** | Hours | Second Term | Hours |
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<td>PHL 100 or 115</td>
<td>3 PHL 100 or 115</td>
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<td>PHL 116</td>
<td>3 PHL 120</td>
<td>3</td>
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<td>PHL 120</td>
<td>3 PHL 116</td>
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<td><strong>Total</strong></td>
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### Sophomore

**First Term** | Hours | Second Term | Hours |
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<tbody>
<tr>
<td>Any two 200 or 300 level philosophy classes</td>
<td>6</td>
<td>Any 200 or 300 level philosophy class</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
<td><strong>3</strong></td>
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</table>

### Junior

**First Term** | Hours | Second Term | Hours |
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</thead>
<tbody>
<tr>
<td>Any two 300 or 400 level philosophy classes</td>
<td>6</td>
<td>One 300 and one 400 level course</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
<td><strong>6</strong></td>
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</tbody>
</table>
Minor Requirements for Philosophy

Requirements

- Philosophy Requirement: 18 hours
  - Select 18 hours from Philosophy (PHL) courses, with at least 9 hours at the 200-level or above.

Total Hours: 18

A grade of "C" or better is required in all philosophy courses for the minor.

Minor Requirements for Philosophy & Law

Director: Theodore Benditt (Philosophy)

The Philosophy and Law minor provides interested students with a secondary specialization focusing upon the philosophical underpinnings of the political and legal systems of the United States as well as the modes of thought found in the legal system. Because legal argument frequently uses ideas found in moral thought, exposure to the theory or history of ethics is critical. The program may be of interest to students contemplating a career in law and in related careers, though it is not intended as a pre-law or legal studies program.

Minor Requirements for Philosophy & Law

Requirements

- Required Philosophy Courses
  - PHL 135: The Rule of Law (3 hours)
  - PHL 230: Social and Political Philosophy (3 hours)
  - PHL 335: Philosophy of Law (3 hours) or PHL 435: Philosophy of Law (3 hours)

- Ethical Theory
  - Select one of the following (3 hours):
    - PHL 125: Introduction to Ethics
    - PHL 215: History of Moral Philosophy
    - PHL 315: Ethics: Theories of Good and Evil

- Electives
  - Select two of the following (other courses may be selected with approval of director) (6 hours):
    - JS 150: Foundations of Law
    - JS 230: The Judicial Process in America: An Overview
    - PSC 330: The American Judicial Process
    - PSC 340: American Political Thought
    - PSC 380: The Politics of Constitutional Law
    - PSC 381: The Bill of Rights
    - PSC 404: Seminar in Political Theory

Total Hours: 18

Major in Philosophy with Honors

The Philosophy Honors Program is designed for qualified, self-motivated students. It is suited for those contemplating graduate work in philosophy or in professional fields in which an honors degree is desired. Through special distribution and credit hour requirements and a directed honors thesis, honors students are prepared for in-depth philosophical research and related graduate and professional opportunity. For acceptance in Philosophy Honors Program a student must

- be a philosophy first major
- have at least sophomore standing
- have at least nine semester hours in UAB philosophy courses
- have at least a 3.5 GPA in UAB philosophy course work
- submit an application to the department (applications are available from department office)

Additional Requirements For Honors in Philosophy Degree

Course Grade and GPA Requirement

No course in which a grade below C has been earned may be counted toward the major. A 3.6 GPA in philosophy (PHL) courses is required for graduation with honors.

Requirements

- Ethics and Value Theory
  - Select two of the following (6 hours):
    - PHL 115: Contemporary Moral Issues
    - PHL 116: Bioethics
    - PHL 125: Introduction to Ethics
    - PHL 135: The Rule of Law
    - PHL 215: History of Moral Philosophy
    - PHL 216: Intermediate Bioethics
    - PHL 230: Social and Political Philosophy
    - PHL 232: Classical Political Thought
    - PHL 233: Modern Political Theory
    - PHL 315: Ethics: Theories of Good and Evil
    - PHL 335: Philosophy of Law
    - PHL 402: Neuroethics

- History of Philosophy
  - Select two of the following (6 hours):
    - PHL 205: Existentialism
    - PHL 215: History of Moral Philosophy
    - PHL 239: Classical Thought of India China and the West
    - PHL 240: History of Philosophy: Socrates Plato and Aristotle
    - PHL 341: History of Philosophy: Descartes to Hume
    - PHL 342: History of Philosophy: Kant and 19th Century
    - PHL 343: History of Philosophy: Twentieth Century
    - PHL 348: American Philosophy
    - PHL 441: History of Philosophy: Descartes to Hume
    - PHL 442: Hist of PHL: Kant and 19th Cent
    - PHL 443: History of Philosophy: Twentieth Century

- Epistemology/Metaphysics/Philosophy of Mind/Logic/Philosophy of Language/Philosophy of Science
  - Select three of the following (9 hours):
    - PHL 270: Science, Knowledge, and Reality
    - PHL 311: Philosophy of Science
    - PHL 312: Philosophy of Biology
Department of Physics

Chair: Ilias Perakis

Physics is a basic science concerned with the study of the universe and the matter, space-time, energy and interactions that take place among them. It includes core theories of classical mechanics, electromagnetism, quantum mechanics, relativity, and thermodynamics. Practical applications of these theories are covered in courses such as Physics of Biomedical Processes and Technologies, Physics of Renewable Energy Systems, Nanoscale Science & Applications, Biophysics, Laser Physics, Optics, and Solid State Physics. There are opportunities for physics majors to excel through research participation in funded projects, where stipends are available through research grants or the established NSF/NASA REU Program, by joining the Honors Physics Program, and by participating in the Society of Physics Students.

The Department of Physics offers courses in astronomy, physics, and physical science. The B.S. degree, with a major in physics, is offered via two tracks. Advising for all physics majors is provided by a professional advisor in conjunction with faculty members. Throughout the course of study of physics as a major or minor, emphasis is placed on understanding of the theories of physics to solve basic and applied problems in science and technology by using critical thinking and systematic analysis. Physicists work effectively in many careers which require these skills, such as, basic, applied, and medical research; medical, financial, and legal services; product design and development; computer programming and software development; management, administration, and quality control; as well as in higher and secondary education.

For the major, there are two distinct B.S. degree tracks in physics:

1. Physics
2. Biophysics

The Physics Track is designed to prepare students for research and high-tech careers and for graduate study in the physical sciences.

The Biophysics Track is an interdisciplinary program of study designed to place students in medical, pharmacy, and optometry school, graduate school in the biosciences, biotech enterprises, and competitive science education and teaching positions. A balanced, flexible mix of physics, chemistry, biology and math is provided.

A Bachelor of Science degree with Honors in Physics is available for both tracks, and offers the motivated and capable physics major with

### Philosophy Electives

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHL 100</td>
<td>Introduction to Philosophy</td>
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<td>PHL 115</td>
<td>Contemporary Moral Issues</td>
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<td>PHL 116</td>
<td>Bioethics</td>
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<td>Philosophy of Religion</td>
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<td>PHL 469</td>
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<tr>
<td>PHL 470</td>
<td>Philosophical Problems in the Natural and Social Sciences</td>
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<tr>
<td>PHL 490</td>
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<td>PHL 494</td>
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</tr>
<tr>
<td>PHL 499</td>
<td>Directed Studies</td>
</tr>
<tr>
<td>PHL 499</td>
<td>Directed Studies</td>
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</tbody>
</table>

To register for this course, contact the Department of Philosophy.
the enhanced opportunity to develop the research, problem-solving and communication skills necessary to excel in a scientific career.

The Department of Physics is a partner in the UABTeach initiative. UABTeach lets undergraduate students receive both their B.S. degree in physics and full teaching certification in four years. More information about the coordination between UABTeach and the UAB Physics Undergraduate program is available at the UABTeach Web site (http://www.uab.edu/uabteach/).

The Department of Physics Web site (http://www.uab.edu/physics/) summarizes information about the Departmental programs. Further information may be obtained from Dr. Renato Camata, Undergraduate Program Director at (205) 934-8143, camata@uab.edu.

Graduate Programs

The Department of Physics offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy in physics. Further information may be obtained from Dr. Mary Ellen Zvanut, Graduate Program Director at (205) 934-6661, mezvanut@uab.edu, or the UAB Graduate School Catalog.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Major in Physics (p. 237)

Major in Physics with a Biophysics Track (p. 238)

Major Requirements for Physics

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td><strong>Required Mathematics Courses</strong></td>
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<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
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<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 227 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Physics Courses</strong></td>
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</tr>
<tr>
<td>PH 221 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 222 General Physics II</td>
<td>4</td>
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<tr>
<td>PH 351 Modern Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 352 Modern Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 432 Statistical Thermodynamics I</td>
<td>3</td>
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<tr>
<td>PH 461 Classical Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PH 462 Classical Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>or PH 465 Applied Mechanics and Electromagnetism I</td>
<td></td>
</tr>
<tr>
<td>or PH 436 Physics of Biomedical Processes and Technologies</td>
<td></td>
</tr>
<tr>
<td>PH 445 Electromagnetic Theory I</td>
<td>3</td>
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<tr>
<td>PH 446 Electromagnetic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>or PH 466 Applied Mechanics and Electromagnetism II</td>
<td></td>
</tr>
<tr>
<td>or PH 436 Physics of Renewable Energy Systems</td>
<td></td>
</tr>
<tr>
<td>PH 450 Introductory Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PH 451 Introductory Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>PH 499 Physics Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Chemistry Courses</strong></td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 and General Chemistry I Laboratory</td>
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</tr>
</tbody>
</table>

Mathematics Elective

Select one of the following courses:

| MA 260 Introduction to Linear Algebra       | 3-4   |
| MA 265 Math Tools for Engineering Problem Solving | |
| MA 268 Introduction to Mathematical Biology |       |
| MA 311 History of Mathematics I             |       |
| MA 312 History of Mathematics II            |       |
| MA 360 Scientific Programming               |       |
| MA 361 Mathematical Modeling                |       |
| MA 411 Integrating Mathematical Ideas        |       |
| MA 419 Special Topics                       |       |
| MA 434 Algebra I: Linear                    |       |
| MA 435 Algebra II: Modern                   |       |
| MA 440 Advanced Calculus I                  |       |
| MA 441 Advanced Calculus II                 |       |
| MA 444 Vector Analysis                      |       |
| MA 445 Complex Analysis                     |       |
| MA 453 Transforms                           |       |
| MA 454 Intermediate Differential Equations  |       |
| MA 455 Partial Differential Equations I     |       |
| MA 456 Partial Differential Equations II    |       |
| MA 461 Modeling with Partial Differential Equations | |
| MA 462 Intro to Stochastic Differential Equations | |
| MA 463 Operations Research I                |       |
| MA 464 Operations Research II               |       |
| MA 467 Gas Dynamics                         |       |
| MA 468 Numerical Analysis                   |       |
| MA 469 Numerical Analysis II                |       |
| MA 470 Differential Geometry I              |       |
| MA 471 Differential Geometry II             |       |
| MA 472 Geometry I                           |       |
| MA 473 Geometry II                          |       |
| MA 474 Introduction to Topology I           |       |
| MA 475 Introduction to Topology II          |       |
| MA 485 Probability                          |       |
| MA 486 Mathematical Statistics              |       |

Total Hours 66-67

Grade Requirement

Students must earn a grade of “C” or better in all courses applied to this major.

Additional Requirements

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Minor

A minor is required for this degree, unless a double major is being earned.
Biophysics Track

The Biophysics Track is a multidisciplinary program of study designed to place students in medical school, graduate school in the biosciences, teaching positions, or biotech enterprises. A balanced, flexible mix of physics, chemistry, biology and math is required.

Major Requirements for Physics with Biophysics Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Required Biology</td>
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<tr>
<td>BY 123 Introductory Biology I</td>
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</tr>
<tr>
<td>BY 124 Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>Required Chemistry</td>
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<tr>
<td>CH 115 General Chemistry I</td>
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<tr>
<td>&amp; CH 116 General Chemistry I Laboratory</td>
<td>4</td>
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<tr>
<td>CH 117 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118 General Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
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</tr>
<tr>
<td>&amp; CH 236 Organic Chemistry I Laboratory</td>
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</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
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<tr>
<td>&amp; CH 238 Organic Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Required Mathematics</td>
<td></td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 227 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MA 252 Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Required Physics Courses</td>
<td></td>
</tr>
<tr>
<td>PH 221 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 222 General Physics II</td>
<td>4</td>
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<tr>
<td>PH 351 Modern Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 352 Modern Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 432 Statistical Thermodynamics I</td>
<td>3</td>
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<td>PH 499 Physics Capstone</td>
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<td>Physics Electives</td>
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<td>Select seven hours of Physics (PH) courses at the 400 level.</td>
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<td>For example:</td>
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<tr>
<td>PH 435 Physics of Biomedical Processes and Technologies</td>
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</tr>
<tr>
<td>PH 436 Physics of Renewable Energy Systems</td>
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<tr>
<td>PH 420 Mathematical Methods of Physics I</td>
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<tr>
<td>PH 423 Computational Physics</td>
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<tr>
<td>PH 487 Nanoscale Science and Applications</td>
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<tr>
<td>PH 491 Advanced Physics Laboratory I</td>
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<tr>
<td>... Click on the &quot;Courses&quot; tab at the top of this page for a full list of PH electives for the Biophysics Track.</td>
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<tr>
<td>Mathematics Elective</td>
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<tr>
<td>Select one of the following courses:</td>
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<tr>
<td>MA 260 Introduction to Linear Algebra</td>
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<tr>
<td>MA 265 Math Tools for Engineering Problem Solving</td>
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<tr>
<td>MA 268 Introduction to Mathematical Biology</td>
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<tr>
<td>MA 311 History of Mathematics I</td>
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<td>MA 312 History of Mathematics II</td>
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<td>MA 360 Scientific Programming</td>
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<td>MA 361 Mathematical Modeling</td>
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<td>MA 411 Integrating Mathematical Ideas</td>
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<td>MA 419 Special Topics</td>
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<td>MA 434 Algebra I: Linear</td>
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<td>MA 435 Algebra II: Modern</td>
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<tr>
<td>MA 440 Advanced Calculus I</td>
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<td>MA 441 Advanced Calculus II</td>
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<tr>
<td>MA 444 Vector Analysis</td>
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<td>MA 445 Complex Analysis</td>
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<td>MA 456 Partial Differential Equations II</td>
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<tr>
<td>MA 461 Modeling with Partial Differential Equations</td>
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<tr>
<td>MA 462 Intro to Stochastic Differential Equations</td>
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<tr>
<td>MA 463 Operations Research I</td>
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<td>MA 464 Operations Research II</td>
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<td>MA 467 Gas Dynamics</td>
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<td>MA 468 Numerical Analysis</td>
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<td>MA 469 Numerical Analysis II</td>
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<td>MA 470 Differential Geometry I</td>
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<td>MA 471 Differential Geometry II</td>
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<td>MA 472 Geometry I</td>
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<td>MA 473 Geometry II</td>
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<tr>
<td>MA 474 Introduction to Topology I</td>
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<td>MA 475 Introduction to Topology II</td>
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<tr>
<td>MA 485 Probability</td>
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<tr>
<td>MA 486 Mathematical Statistics</td>
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<tr>
<td>Total Hours</td>
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</table>

Grade Requirement

Students must earn a grade of "C" or better in all courses applied to this major.

Additional Requirements

A biophysics track student who has taken all or part of the PH 201-202 sequence before declaring a physics major may petition to have those courses substitute for PH 221-222.

General Electives

Students must take general electives to reach the 120 semester hour requirement.

Minor

A minor is required for this degree, unless a double major is being earned.

Suggested plans for majoring in physics

The plans provided below are meant to assist you in your path toward the B.S. degree in physics. Choose Group 1, 2, or 3, depending on your affiliation with the Science and Technology Honors Program (STHP) or the University Honors Program (UHP). Then identify within the chosen group the plan that best matches your goals and background. Please consult with an academic advisor to select the most suitable plan for you:

Group 1: Physics majors not in the Science and Technology Honors Program or the University Honors Program
Plan 1A: Graduate School Bound and/or Strong HS Math/Physics (Freshmen with Calculus I Credit)

Plan 1B: Graduate School Bound and/or Solid HS Math/Physics (Freshmen without Calculus I Credit)

Plan 1C: Intensive Physics Track (Freshmen without Calculus I Credit)

Plan 1D: Physics Track (Students with large science/engineering loads; double majors; UABTeach (https://www.uab.edu/uabteach))

Plan 1E: Biophysics Track (Students with large interdisciplinary course loads; UABTeach (https://www.uab.edu/uabteach))

**Group 2:** Physics majors in the Science and Technology Honors Program

- Plan 2A: Graduate School Bound and/or Strong HS Math/Physics (Freshmen with Calculus I Credit)
- Plan 2B: Graduate School Bound and/or Solid HS Math/Physics (Freshmen without Calculus I Credit)
- Plan 2C: Physics Track (Students with large science/engineering; double majors; UABTeach (https://www.uab.edu/uabteach))
- Plan 2D: Biophysics Track (Students with large interdisciplinary course load; UABTeach (https://www.uab.edu/uabteach))

**Group 3:** Physics majors in the University Honors Program

- Plan 3A: Graduate School Bound and/or Solid HS Math/Physics
- Plan 3B: Biophysics Track (Students with large interdisciplinary course load; UABTeach (https://www.uab.edu/uabteach))

---

### Plan 1A: Graduate School Bound - Freshman with Calculus I Credit

**This plan is recommended for:**

- Students with strong high school math and/or physics preparation
- Students who plan to pursue Graduate Studies in physics or related areas
- **This plan is not intended for students in STHP or UHP**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Second Term</th>
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<td>PH 221</td>
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<td>PH 222</td>
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<td>MA 126</td>
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<td>MA 227</td>
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</tr>
<tr>
<td>CH 115</td>
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<td>CH 117</td>
<td>3</td>
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<td>CH 116</td>
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<td>CH 118</td>
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<tr>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
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<td><strong>Total</strong></td>
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**Sophomore**

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<td>PH 351</td>
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<td>PH 352</td>
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<td>PH 420</td>
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<td>PH 432</td>
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<td>PH 461 or 445</td>
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<td>PH 465, 435, 462, or 446</td>
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<tr>
<td>MA 252</td>
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<td>MA 260</td>
<td>3</td>
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<td>MU 120</td>
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<td>PHL 115</td>
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**Junior**

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<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tr>
<td>PH 445 or 461</td>
<td>3</td>
<td>PH 466, 436, 446, or 462</td>
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<tr>
<td>PH 450</td>
<td>3</td>
<td>PH 451</td>
<td>3</td>
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<tr>
<td>PH 4xx (Physics Elective)</td>
<td>3</td>
<td>PH 423</td>
<td>3</td>
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<tr>
<td>HY 101</td>
<td>3</td>
<td>HY 102</td>
<td>3</td>
</tr>
</tbody>
</table>

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### Plan 1B: Graduate School Bound - Freshman without Calculus I Credit

**This accelerated plan is recommended for:**

- Students with solid high school math and/or physics preparation
- Students who plan to pursue Graduate Studies in physics or related areas
- **This plan is not intended for students in STHP or UHP**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4</td>
<td>PH 221</td>
<td>4</td>
</tr>
<tr>
<td>CH 115</td>
<td>3</td>
<td>MA 126</td>
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</tr>
<tr>
<td>CH 116</td>
<td>1</td>
<td>CH 117</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
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<td>CH 118</td>
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</tr>
<tr>
<td>MU 120</td>
<td>3</td>
<td>EH 102</td>
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<td><strong>Total</strong></td>
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**Sophomore**

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**Junior**

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### Plan 1C: Intensive Physics Track

This plan is recommended for:

- Students planning for technical careers without immediate focus on Graduate School in physics
- This plan is not intended for students in STHP or UHP

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Total credit hours: 118-121

* Indicates suggested core curriculum courses. Consult with an academic advisor for other options.

### Plan 1D: Physics Track

This plan is recommended for:

- Students with large science or engineering course loads in areas other than physics.
- Students pursuing more than one major or students in the UABTeach (https://www.uab.edu/ubteach) Program
- This plan is not intended for students in STHP or UHP

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Total credit hours: 100-103

* Indicates suggested core curriculum courses. Consult with an academic advisor for other options.
Plan 1E: Biophysics Track

This plan is recommended for:

- Biophysics Track students with numerous professional school requirements or large load in interdisciplinary courses
- Students pursuing more than one major or students in the UABTeach (https://www.uab.edu/uabteach) Program
- This plan is not intended for students in STHP or UHP

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Total credit hours: 120-122

* Indicates suggested core curriculum courses. Consult with an academic advisor for other options.

Plan 2B: Graduate School Bound - Freshman without Calculus I Credit

This accelerated plan is recommended for:

- Students in the Science and Technology Honors Program (STHP) who have solid high school math and/or physics preparation
- Students who plan to pursue Graduate Studies in physics or related areas

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Total credit hours: 101-104

* Indicates suggested core curriculum courses. Consult with an academic advisor for other options.
### Sophomore

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16 14-16

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12 12

Total credit hours: 121-123

* Indicates suggested core curriculum courses. Consult with an academic advisor for other options.

### Plan 2C: Physics Track

**This plan is recommended for:**
- Students in the Science and Technology Honors Program (STHP) with large science or engineering course loads in areas other than physics
- Students pursuing more than one major or students in the UABTeach (https://www.uab.edu/uabteach) Program

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### Sophomore

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17 14-16

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14 14

### Plan 2D: Biophysics Track

This plan is recommended for:
- Students in the Science and Technology Honors Program (STHP) with numerous professional school requirements or large load in interdisciplinary courses
- Students pursuing more than one major or students in the UABTeach (https://www.uab.edu/uabteach) Program

### Freshman

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### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 221</td>
<td>4 PH 222</td>
<td>4</td>
</tr>
<tr>
<td>MA 227</td>
<td>4 MA 252</td>
<td>3</td>
</tr>
<tr>
<td>CH 235</td>
<td>3 CH 237</td>
<td>3</td>
</tr>
<tr>
<td>CH 236</td>
<td>1 CH 238</td>
<td>1</td>
</tr>
<tr>
<td>STH 299</td>
<td>3 STH 250</td>
<td>1-3</td>
</tr>
<tr>
<td>MU 120*</td>
<td>3 PH 115*</td>
<td>3</td>
</tr>
</tbody>
</table>

18 15-17

### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 351</td>
<td>4 PH 352</td>
<td>4</td>
</tr>
<tr>
<td>PH 4xx (Physics Elective)</td>
<td>3 PH 432</td>
<td>3</td>
</tr>
<tr>
<td>MA 268</td>
<td>3 PH 435</td>
<td>3</td>
</tr>
<tr>
<td>STH 395</td>
<td>1 STH 400</td>
<td>1</td>
</tr>
<tr>
<td>HY 101*</td>
<td>3 HY 102*</td>
<td>3</td>
</tr>
</tbody>
</table>

14 14

Total credit hours: 121-123

* Indicates suggested core curriculum courses. Consult with an academic advisor for other options.
### Plan 3A: Graduate School Bound - University Honors Program

This plan is recommended for:

- Students in the University Honors Program (UHP) with solid high school math and/or physics preparation
- Students who plan to pursue Graduate Studies in physics or related areas

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>4 PH 221</td>
<td>4</td>
<td>PH 222</td>
<td>4</td>
</tr>
<tr>
<td>CH 115</td>
<td>3 MA 126</td>
<td>4</td>
<td>MA 227</td>
<td>4</td>
</tr>
<tr>
<td>CH 116</td>
<td>1 CH 117</td>
<td>3</td>
<td>CH 118</td>
<td>1</td>
</tr>
<tr>
<td>HON 1xx</td>
<td>9 CH 118</td>
<td>1</td>
<td>Honors Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credit hours: 17

### Minor Requirements for Physics

**Requirements**

**Required Physics Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 221</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 222</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 351</td>
<td>Modern Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Physics Electives**

Select 6 hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 435</td>
<td>Physics of Biomedical Processes and Technologies</td>
</tr>
<tr>
<td>PH 436</td>
<td>Physics of Renewable Energy Systems</td>
</tr>
<tr>
<td>PH 352</td>
<td>Modern Physics II</td>
</tr>
</tbody>
</table>

Total credit hours: 114
Students graduating with Physics Honors are required to have completed the following:

- arrangement with a faculty sponsor to do a physics research project satisfying expectations for six semester hours of PH 495 Honors Research
- selection of an Honors Committee.
- committee approval of a written research proposal.
- completion of the proposed six semester hours of PH 495 Honors Research.
- maintenance of a 3.25 GPA in physics courses and an overall 3.0 GPA.
- a written report in the format required by an appropriate journal.
- an oral or poster presentation of the research project to the Honors Committee.

Benefits

The goal of the Physics Honors Program is to train capable undergraduates for uncommon accomplishment in academic research. The new physics honors graduate will have documented experience and productivity commonly found in second- or third-year graduate students. Ideally, the research project will result in publication and presentation at a national conference, giving the honors graduate strong credentials for graduate or medical/professional school, for industrial research, for science writing, and for teaching. Contacts made through publication and conferences and informed references written by mentor and committee members give the honors graduate a significant edge in the job market. The successful honors student will be recognized at the UAB Honors Convocation and will graduate “With Honors in Physics.”

GPA & Residency Requirement

A minimum grade of “C” is required in all courses applied to the minor, as well as all mathematics course prerequisites. A minimum of two physics courses must be completed at UAB.

Honors Program in Physics

The Physics Honors Program offers the motivated and capable physics major enhanced opportunities to develop the research, problem solving, and communication skills necessary for a dedicated effort in the scientific enterprise. By designing, describing, and defending a research project, the honors graduate will have a documented capacity for success in graduate school or in any career where scientific critical thinking, motivation, and accomplishment are valued.

Eligibility

Acceptance into the Physics Honors Program requires the student to:

- have earned a 3.25 GPA in physics courses attempted.
- have earned a 3.0 GPA overall.
- have completed 16 semester hours in physics, including PH 351-PH 352.

Requirements

Students graduating with Physics Honors are required to have completed the following:

- acceptance into the Physics Honors Program requires the student to:
  - have earned a 3.25 GPA in physics courses attempted.
  - have earned a 3.0 GPA overall.
  - have completed 16 semester hours in physics, including PH 351-PH 352.

Benefits

The goal of the Physics Honors Program is to train capable undergraduates for uncommon accomplishment in academic research. The new physics honors graduate will have documented experience and productivity commonly found in second- or third-year graduate students. Ideally, the research project will result in publication and presentation at a national conference, giving the honors graduate strong credentials for graduate or medical/professional school, for industrial research, for science writing, and for teaching. Contacts made through publication and conferences and informed references written by mentor and committee members give the honors graduate a significant edge in the job market. The successful honors student will be recognized at the UAB Honors Convocation and will graduate “With Honors in Physics.”

Contact

Dr. Renato P. Camata
Director Undergraduate Physics Program
E-Mail: camata@uab.edu

Dr. David L. Shealy, Chair
E-mail:dlis@uab.edu

Telephone: (205) 934-4736
Mail address
UAB-Physics
1530 3rd Ave. S., CH310
Birmingham, AL 35294-1170 USA

Department of Psychology

Chair: Dr. Karlene K. Ball
Director of Undergraduate Studies: Dr. Maria Hopkins

The curriculum in psychology provides a flexible program for the psychology major leading to the Bachelor of Science degree. Alternatively, students can earn a minor in psychology or take advantage of the numerous course offerings that are open to all students. The department provides a variety of experiences to give students an understanding of the basic principles and mechanisms of behavior. The scientific method is emphasized throughout the curriculum. Students with a major or minor in psychology are encouraged to obtain first-hand experience with both the creation of new knowledge (research) and the application of that knowledge in community and treatment settings. There are many opportunities for students to gain firsthand research experience by working with individual faculty members in a variety of laboratory, clinical, and field research settings. In addition, numerous community and treatment facilities provide settings for students to observe and participate in the application of psychological principles to the solution of individual and social problems.

In addition to providing a major field of study as part of a liberal arts and science education, the B.S. degree in psychology prepares students for graduate study in psychology. The degree also provides a strong intellectual foundation for a variety of careers in areas such as teaching, counseling, social work, human factors engineering, community planning, sales, management, personnel administration, ministry, law, politics, and various health professions, including psychiatry, nursing, medicine, optometry, public health, and physical and occupational therapy. For information on preparation for these careers, see the Psychology Department Undergraduate website, http://www.uab.edu/cas/psychology/undergraduate
Psychology is an evolving discipline, and after a period of time the material taught in a psychology course is no longer current. For this reason, the Department of Psychology reserves the right to deny credit toward its major and minors for Elementary Statistical Methods (PY 216) and upper level (300 and above) courses completed more than 12 years prior to graduation.

Graduate Program

The Department of Psychology offers programs of study leading to the Doctor of Philosophy (Ph.D.) degree in three areas of psychology: medical clinical psychology (co-sponsored by the School of Medicine), behavioral neuroscience, and lifespan developmental psychology. Although the Master of Science (M.S.) degree is awarded as an intermediate degree in some Ph.D. programs, a terminal M.S. degree program is not offered. Individuals interested in the graduate program should contact the Department of Psychology or the UAB Graduate School.

Major

To qualify for a B.S. degree in psychology, students must complete a minimum of 38 semester hours of courses in psychology and 6 semester hours of coursework in biology, chemistry, or physics, as listed below.

Major Requirements for Psychology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology, Chemistry, or Physics</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following areas:</td>
<td></td>
</tr>
<tr>
<td>Biology (BY)</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry (CH)</td>
<td>1</td>
</tr>
<tr>
<td>Physics (PH)</td>
<td>1</td>
</tr>
<tr>
<td>General Requirements 2</td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 201 Honors Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 222 Honors Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 215 Research Literacy in Psychology</td>
<td>2</td>
</tr>
<tr>
<td>PY 216 Elementary Statistical Methods (Concurrent enrollment in PY 216L is required.)</td>
<td>4</td>
</tr>
<tr>
<td>or PY 226 Honors Elementary Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>PY 216L Elementary Statistical Methods Laboratory</td>
<td></td>
</tr>
<tr>
<td>PY 218 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PY 228 Honors Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 316 Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PY 253 Brain, Mind and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PY 490 Psychology Capstone/SL</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Coursework</td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
</tr>
<tr>
<td>PY 303 Introduction to Cognitive Science</td>
<td></td>
</tr>
<tr>
<td>PY 312 Advanced Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 313 Introduction to Language Development</td>
<td></td>
</tr>
<tr>
<td>PY 325 Clinical Child Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 335 Motivation and Emotion</td>
<td></td>
</tr>
<tr>
<td>PY 350 Personality and Intellectual Assessment</td>
<td></td>
</tr>
<tr>
<td>PY 353 Behavioral Neuroscience</td>
<td></td>
</tr>
<tr>
<td>PY 354 Autism: Brain and Cognition</td>
<td></td>
</tr>
<tr>
<td>PY 361 Psychology of Learning</td>
<td></td>
</tr>
</tbody>
</table>

Select three other Psychology (PY) courses, including two courses at the 400 level not otherwise required 3

<table>
<thead>
<tr>
<th>Psychology Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 363 Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 370 Personality</td>
<td></td>
</tr>
<tr>
<td>PY 372 Social Psychology</td>
<td></td>
</tr>
<tr>
<td>PY 380 Perception</td>
<td></td>
</tr>
<tr>
<td>PY 390 Animal Behavior</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 45

1 BY 111, BY 112, CH 100 and PH 100 may not be taken to satisfy this requirement. Most biology, chemistry, and physics courses that satisfy the Area III Core Curriculum requirement will also satisfy this requirement of the major. It is recommended that students consult with the psychology advisor about this requirement.

2 Completing PY 101 or PY 201 and PY 212 will also satisfy 6 of the 12 required hours in Core Curriculum Area IV.

3 Six hours must be taken at the 400 level. The remaining 3 hours may be taken at either the 300 or 400 level. PY 396 Teaching Practicum in Psychology, PY 397 Community-Based Practicum in Psychology and PY 398 Research Practicum in Psychology may not be used to fulfill more than three hours of this requirement.

Grade and Residency Requirement

A grade of C or better is required in all courses applied to the major. At least 15 hours at the 300 level or above, including at least 9 hours at the 400 level, must be completed at UAB.

Additional Requirements

Minor

A minor is recommended but not required for this degree.

General Electives

Students must take general electives to reach the 120 semester hour graduation requirement.

Students are encouraged to assist with ongoing research projects and/or obtain experience with the application of psychology in teaching or community settings. Academic credit may be earned for these experiences. Students may apply a maximum of 3 semester hours of PY 398 (research), and/or PY 396 (teaching), and/or PY 397 (community) to their major and minor requirements. Students preparing to attend graduate school in psychology are strongly encouraged to participate in the Psychology Honors Program, get involved faculty research projects, and develop a strong background in natural sciences, mathematics, and computer science.

Psychology majors may be required to complete a general psychology examination at the time they declare psychology as their major, as well as a second examination upon completion of the course requirements for a B.S. degree in psychology. Although these examinations may be required for graduation, they are intended for program assessment purposes only. Performance on these examinations will not affect students’ grade point averages, nor will they be a factor in determining whether students qualify for the baccalaureate degree.

Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4 /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-
Psychology majors have two full-time academic advisors available. Please contact CAS Advising, Heritage Hall Building, (205) 934-6135.

## Proposed Program of Study for a Major in Psychology

### Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 101</td>
<td>3 PY 212</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 PY 215</td>
<td>2</td>
</tr>
<tr>
<td>Core Curriculum Area IV:</td>
<td>3 Core Curriculum Area IV:</td>
<td>3</td>
</tr>
<tr>
<td>History(^1)</td>
<td>History(^1)</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art(^2)</td>
<td>Core Curriculum Area II: Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

### Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum Area II:</td>
<td>3 Core Curriculum Area II:</td>
<td>3</td>
</tr>
<tr>
<td>Literature(^3)</td>
<td>3 PY 253</td>
<td>3</td>
</tr>
<tr>
<td>PY 216</td>
<td>4 PY 316</td>
<td>3</td>
</tr>
<tr>
<td>PY 216L</td>
<td>0 Core Curriculum Area II: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>PY 218</td>
<td>3 Minor</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III:</td>
<td>4 General Elective</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science(^4)</td>
<td>Natural Science (^4)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 14

### Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology (PY) 300-level(^5)</td>
<td>3 Psychology (PY) 300-level(^5)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology (PY) 300-level</td>
<td>3 Psychology (PY) 400-level</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III:</td>
<td>4 Minor</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science with Lab(^4)</td>
<td>3 General Electives</td>
<td>7</td>
</tr>
<tr>
<td>Minor</td>
<td>General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 16

### Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PY 490</td>
<td>3 Psychology (PY) 400-level</td>
<td>3</td>
</tr>
<tr>
<td>Psychology Elective (Select One):</td>
<td>3 Psychology Elective (Select One):</td>
<td>3</td>
</tr>
<tr>
<td>PY 396</td>
<td>PY 396</td>
<td>3</td>
</tr>
<tr>
<td>PY 397</td>
<td>PY 397</td>
<td>3</td>
</tr>
<tr>
<td>PY 398</td>
<td>PY 398</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>6</td>
</tr>
<tr>
<td>General Electives</td>
<td>6 General Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

Total credit hours: 120

---

\(^1\) Select One: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.

\(^2\) Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 105 or THR 200.

\(^3\) Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224

\(^4\) Must include six hours of approved Biology (BY), Chemistry (CH), or Physics (PH) courses.

\(^5\) Select One: PY 303, PY 312, PY 313, PY 325, PY 335, PY 350, PY 353, PY 354, PY 361, PY 363, PY 370, PY 372, PY 380 or PY 390.

A minor is recommended for Psychology Majors.

### Minor

To qualify for a minor in psychology, students must complete a minimum of 18 semester hours of courses in psychology, as listed below.

#### Minor Requirements for Psychology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introductory Psychology Course</strong></td>
<td></td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology(^1) or PY 201 Honors Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Advanced Psychology</strong></td>
<td>9</td>
</tr>
<tr>
<td>Select nine hours from Psychology (PY) courses at the 300 level or above(^2)</td>
<td></td>
</tr>
<tr>
<td><strong>Psychology Electives</strong></td>
<td>6</td>
</tr>
<tr>
<td>Select six hours from Psychology (PY) courses not otherwise required(^2)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

\(^1\) PY 101 Introduction to Psychology or PY 201 Honors Introduction to Psychology may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.

\(^2\) PY 396 Teaching Practicum in Psychology, PY 397 Community-Based Practicum in Psychology, and PY 398 Research Practicum in Psychology may not be used to fulfill more than three hours of this requirement.

### Grade & Residency Requirement

A grade of "C" or better is required in all courses applied to the minor. At least six hours at the 300-level or above must be completed at UAB.

### Psychology Honors Program

#### Purpose

Participation in the Psychology Honors Program provides an enriched learning environment for psychology majors with excellent academic records who are interested in pursuing graduate study and a career in psychology, medicine, or other health related professions. The program provides students with a strong foundation in behavioral science through an enhanced program of study and the opportunity to conduct research with an individual member of the faculty. Students who complete the program will qualify for the B.S. in psychology and graduate “With Honors in Psychology.”

#### Eligibility

Students may apply for admission to the program at any time after being at UAB for at least one semester, provided they will attend UAB for at least three additional semesters in order to complete their honors thesis.
and program-specific coursework (PY 399 and PY 499). Students should submit an application form (available from their psychology advisor or the department website) to the Director of the Psychology Honors Program (mgcrowe@uab.edu), and an interview will be scheduled.

For admission to the program students should have a minimum GPA of 3.50 in psychology coursework, an overall GPA of 3.50 or above (at UAB as well as any transfer institution), and grades of A or B in core English and Mathematics courses.

Requirements

Students in the Psychology Honors program must complete a minimum of 48 semester hours of courses in psychology and 6 semester hours of coursework in biology, chemistry, or physics, as listed below.

Requirements for Honors in Psychology

Grade and Residency Requirement

A grade of C or better is required in all courses applied to these requirements. Overall GPA, Psychology GPA, and Institutional GPA (courses taken at UAB) must all be at least 3.50 and maintained at a minimum of 3.50 to remain in and graduate from the Honors Program. At least 18 hours at the 300 level or above, including all honors and practicum courses must be completed at UAB.

Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Biology, Chemistry or Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Select two courses from the following areas:</td>
</tr>
<tr>
<td></td>
<td>Biology (BY) 1</td>
</tr>
<tr>
<td></td>
<td>Chemistry (CH) 1</td>
</tr>
<tr>
<td></td>
<td>Physics (PH) 1</td>
</tr>
<tr>
<td></td>
<td>General Requirements</td>
</tr>
<tr>
<td>3</td>
<td>PY 101 Introduction to Psychology 2</td>
</tr>
<tr>
<td></td>
<td>or PY 201 Honors Introduction to Psychology</td>
</tr>
<tr>
<td>3</td>
<td>PY 212 Developmental Psychology 2</td>
</tr>
<tr>
<td>2</td>
<td>PY 215 Research Literacy in Psychology</td>
</tr>
<tr>
<td>4</td>
<td>PY 216 Elementary Statistical Methods</td>
</tr>
<tr>
<td></td>
<td>&amp; 216L and Elementary Statistical Methods Laboratory</td>
</tr>
<tr>
<td>3</td>
<td>PY 218 Abnormal Psychology</td>
</tr>
<tr>
<td>3</td>
<td>PY 253 Brain, Mind and Behavior</td>
</tr>
<tr>
<td>3</td>
<td>PY 316 Research Methods in Psychology</td>
</tr>
<tr>
<td></td>
<td>Advanced Coursework</td>
</tr>
<tr>
<td>9</td>
<td>Select three of the following:</td>
</tr>
<tr>
<td></td>
<td>PY 303 Introduction to Cognitive Science</td>
</tr>
<tr>
<td></td>
<td>PY 312 Advanced Developmental Psychology</td>
</tr>
<tr>
<td></td>
<td>PY 313 Introduction to Language Development</td>
</tr>
<tr>
<td></td>
<td>PY 325 Clinical Child Psychology</td>
</tr>
<tr>
<td></td>
<td>PY 335 Motivation and Emotion</td>
</tr>
<tr>
<td></td>
<td>PY 350 Personality and Intellectual Assessment</td>
</tr>
<tr>
<td></td>
<td>PY 353 Behavioral Neuroscience</td>
</tr>
<tr>
<td></td>
<td>PY 354 Autism: Brain and Cognition</td>
</tr>
<tr>
<td></td>
<td>PY 361 Psychology of Learning</td>
</tr>
<tr>
<td></td>
<td>PY 363 Cognitive Psychology</td>
</tr>
<tr>
<td></td>
<td>PY 370 Personality</td>
</tr>
<tr>
<td></td>
<td>PY 372 Social Psychology</td>
</tr>
<tr>
<td></td>
<td>PY 380 Perception</td>
</tr>
<tr>
<td></td>
<td>PY 390 Animal Behavior</td>
</tr>
</tbody>
</table>

Honors Courses

Complete 5 hours of honors coursework:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Psychology Honors Seminar &amp; PY 499 and Psychology Honors Thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Psychology Electives and Practicum</td>
</tr>
<tr>
<td>15</td>
<td>Select 3 courses at the 400 level not otherwise required, in addition to completing 6 hours of practicum coursework.</td>
</tr>
<tr>
<td></td>
<td>PY 398 Research Practicum in Psychology</td>
</tr>
<tr>
<td></td>
<td>PY 396 Teaching Practicum in Psychology</td>
</tr>
<tr>
<td></td>
<td>or PY 397 Community-Based Practicum in Psychology</td>
</tr>
</tbody>
</table>

Total Hours 56

1. BY 111, BY 112, CH 100, and PH 100 may not be taken to satisfy this requirement. Most biology, chemistry, and physics courses that satisfy the Area III Core Curriculum requirement will also satisfy this requirement of the major. It is recommended that students consult with the psychology advisor about this requirement.

2. Completing PY 101 or PY 201 and PY 212 will also satisfy 6 of the 12 required hours in Core Curriculum Area IV.

3. Take PY 399 Psychology Honors Seminar in any three semesters after joining honors program. Take PY 499 Psychology Honors Thesis concurrently with the last enrollment in PY 399. Note that these courses are only offered in the Spring and Fall semesters. If these classes are completed, students fulfill the requirement of Psychology Capstone and do not take PY 490.

4. Take at least 5 hours of PY 398 Research Practicum in Psychology hours of and at least 1 hour of PY 396 Teaching Practicum in Psychology or PY 397 Community-Based Practicum in Psychology.

Requirements for the general psychology examination, described above for the major in psychology, also apply to students in the Psychology Honors Program. As psychology majors, honors students have a full-time academic advisor available in the psychology department (Dr. Eric Gampher); Room 415 Campbell Hall; Telephone: (205) 934-3850; E-mail: redfox@uab.edu

Contact

For more information and an application for admission to the Psychology Honors Program, see the undergraduate psychology web site at http://www.uab.edu/cas/psychology/undergraduate. You can also contact the Honors Program Director, Dr. Michael Crowe, at mgcrowe@uab.edu

Department of Social Work

Chair: Dr. David E. Pollio

The baccalaureate social work program is fully accredited by the Council on Social Work Education and prepares graduates for employment at the beginning level of professional social work practice as well as for graduate-level professional education. The mission is to educate undergraduate students from a social science perspective in both problem-solving skills and social work values to prepare them for generalist practice with diverse populations in an increasingly complex and interconnected world, emphasizing social and economic justice for populations at risk. The program encourages social work career development through affiliation with professional organizations, pursuit of graduate education, and involvement in continuing education.

Students seeking to formally declare Social Work as a major must officially apply to the Social Work Professional program. Upon submitting the application and a signed academic check sheet all applicants are
expected to submit a four question essay which will be evaluated by Department of Social Work faculty to determine admission.

Required course work includes acquisition of social work knowledge, values, and skills essential to social work practice, research, and policy. The curriculum culminates with a full-time, one-term field practicum.

No minor is required for social work majors. Instead, selected social and behavioral science courses provide a foundation for the professional courses. These foundation courses include:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 121 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>EC 210 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or EC 211 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>PY 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSC 101 Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>or PSC 221 American State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AAS 200 or other approved minority studies course</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed with a grade of C or better. Additionally, students are required to take at least one biology course and laboratory that includes content about human beings (BY 102 or BY 123), also completed with a grade of C or better. This requirement may be taken as part of the Core Curriculum.

**Major Requirements for Social Work**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Social Work Courses</strong></td>
<td></td>
</tr>
<tr>
<td>SW 100 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 200 Professional Communication in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 203 Social Welfare History</td>
<td>3</td>
</tr>
<tr>
<td>SW 222 Social Work Values Lab</td>
<td>4</td>
</tr>
<tr>
<td>SW 302 Social Welfare Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SW 313 Human Behavior and The Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SW 314 Human Behavior in the Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SW 320 Introduction to Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SW 321 Statistics for Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>SW 322 Social Work Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SW 422 Social Work Practice II</td>
<td>4</td>
</tr>
<tr>
<td>SW 490 Practicum in Social Work/SL</td>
<td>9</td>
</tr>
<tr>
<td>SW 494 Practicum Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

| Social Work Elective                      |       |
| Select three hours from SW courses        | 3     |

**Total Hours** 51

**Additional Requirements**

**General Electives**

Students must take general electives to reach the 120 semester hour requirement.
Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.

Select One: SW 207, SOC 220, SOC 250, SOC 490 (must take 3 times), or WS 100

**Minor Requirements for Social Work**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Social Work</strong></td>
<td></td>
</tr>
<tr>
<td>SW 100 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Work Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select fifteen hours from SW courses</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

**Grade Requirement**

A C or better is required in all courses applied to the minor.

**The Social Work Honors Program**

The Social Work Honors Program will prepare students for graduate-level studies or professional careers in Social Work. The program is designed to enhance students' problem solving skills, critical and independent thinking, and application of research/evidence-based practice. Students participating in the Social Work Honors Program will benefit as follows:

- One-on-one mentoring with faculty in the department, professional presentations and exposure designed to enhance the student's understanding of the field and practice of social work.
- Students who complete the program will graduate with “Honors in Social Work.”

**Minimum Eligibility Requirements**

- Completion of four required social work courses (SW 100, 200, 203, 222)
- Declaration and acceptance into the social work major
- Must apply to the Honors Program no later than the 2nd Friday of November (for spring admission) or the 2nd Friday of March (for fall admission).
- Must have and maintain a minimum 3.3 overall GPA and a minimum 3.8 GPA in required social work courses through graduation

**Application Process**

Submit application material to the Department of Social Work office.

The application deadline(s) are as follows:

- Fall Admission - No later than the 2nd Friday in March
- Spring Admission – No later than the 2nd Friday in November

Submit a the “Social Work Honors Program Application” with the following documents:

- A copy of your unofficial transcript.
- A recommendation letter from an instructor of SW 100, 200, 203, or 222.
- A copy of your resume
- NOTE: The application must be typed.

**Course Requirements**

To complete the departmental honors program, students must earn 10 honors credit hours. Honors sections will be offered in the following courses:

- SW 320 Honors (3 credits)
- SW 494 Honors (3 credits)*
- SW 498 (1 credit)**
- SW 496 Honors Seminar (3 credits)

*SW 494 must be taken as the required social work elective.

**In SW 498 additional course work is not required of all social work students.

**Department of Sociology**

**Chair:** William Cockerham

The Department offers two approaches for a major in sociology: 1. General Sociology 2. Social Psychology Concentration in Sociology. Minors are offered in Medical Sociology, Social Psychology, and General Sociology.

Sociology is the scientific study of human social behavior, from the smallest group interactions to the broadest and most complex social processes. As a social science, the discipline analyzes the patterns of behavior in all types of social relationships. This field has broad scope and relevance. The undergraduate program in general sociology is designed to complement UAB’s location in a large metropolitan area with a major medical center. Such a location provides an excellent laboratory for study in several areas, including medical sociology, aging, social psychology, social inequality, and urban sociology. Students may choose from several courses in each of these areas. A significant number of courses are available in medical and health-related sociology.

The social psychology concentration provides a perspective on interpersonal relationships that draws on research conducted by sociologists and psychologists. In the broadest sense, social psychology is the study of how people's behaviors and thoughts influence, and are influenced by, the actions of others. As a field of study, social psychology has typically focused on the study of persons in face-to-face situations and small group settings.

The central goal of both general sociology and the social psychology concentration is to provide students with a solid foundation in the basic tools of the discipline: statistical analysis, research methodology, and theoretical frameworks.

General sociology offers training for four basic types of careers. First, it provides a broad background for students who are not planning a career in sociology but who want an understanding of the nature and development of social structures and social issues-knowledge that can be applied to a variety of occupations and careers. Second, it offers valuable preparation for professional careers in the social services. Third, it serves as useful pre-professional training for careers such as the health professions, law, business, education, government, and even architecture. Finally, the program helps prepare students for graduate study in sociology and other social sciences.

The social psychology concentration prepares students for careers in service-oriented fields such as health professions, education, business, and government, and graduate work in social psychology.
Graduate Program
For information on the graduate program in sociology, please consult the Department of Sociology or the UAB Graduate School Catalog.

Major Requirements for Sociology
(p. 250)

Major Requirements for Sociology with a Social Psychology Concentration
(p. 250)

Major Requirements for Sociology

Grade and Level Requirement
• A grade of “C” or better is required in all Sociology courses.
• SOC 489 must be completed at UAB. A total of 9 hours at 400+ must be taken in residence at UAB. Transfer students must earn at least 12 semester hours in residence.

Requirements for a Major in Sociology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements</td>
<td></td>
</tr>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC 310</td>
<td>Sociological Literacy</td>
</tr>
<tr>
<td>SOC 407</td>
<td>Development of Sociological Theory</td>
</tr>
<tr>
<td>SOC 489</td>
<td>The Research Experience</td>
</tr>
</tbody>
</table>

Sociology Electives
Select 24 hours in Sociology (SOC) courses. Three (3) credit hours at any level (100-level or higher). Nine (9) credit hours at the 200-level or higher. Nine (9) credit hours at the 300-level or higher and three (3) credit hours at the 400-level.

Total Hours 37

Additional Requirement

General Electives
Students must take general electives to reach the 120 semester hour requirement.

Social Psychology Concentration in the Sociology Major
To qualify for a B.A. degree in sociology with a concentration in social psychology, a student must complete a minimum of 35 semester hours as listed below. SOC 489 must be completed at UAB. A total of 9 hours at 400+ must be taken in residence at UAB. Transfer students must earn at least 12 semester hours in residence. A grade of C or better is required in all courses applied toward the major, including transfer courses. The 35-semester-hour B.A. program in social psychology is distributed as follows:

Requirements for a Major in Sociology with a Social Psychology Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements</td>
<td></td>
</tr>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>PY 101</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>SOC 120</td>
<td>Introduction to Social Psychology</td>
</tr>
<tr>
<td>SOC 310</td>
<td>Sociological Literacy</td>
</tr>
<tr>
<td>PY 372</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>SOC 405</td>
<td>Mind, Self and Society</td>
</tr>
<tr>
<td>SOC 489</td>
<td>The Research Experience</td>
</tr>
</tbody>
</table>

Psychology Requirements
Select one of the following:
- PY 212 | Developmental Psychology |
- PY 218 | Abnormal Psychology |
- PY 319 | Psychopathology and Culture |

Sociology Electives
Select nine (9) credit hours at the 300-level or higher, and three (3) hours at 400-level.

Total Hours 37

Proposed Program of Study for a Major in Sociology

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>3 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>MA 110</td>
<td>3 Core Curriculum Area IV: History</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
<td>3 Core Curriculum Area II: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area IV: History 1</td>
<td>3 Core Curriculum Area IV: Social and Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art 2</td>
<td>3 General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 15

Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 120</td>
<td>3 Sociology (SOC) 200-level and above</td>
<td>3</td>
</tr>
<tr>
<td>Sociology (SOC) 200-level and above</td>
<td>3 Core Curriculum Area III: Natural Science with Lab</td>
<td>4</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature 3</td>
<td>3 Core Curriculum Area II: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area III: Natural Science with Lab</td>
<td>4 Minor</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3 General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 16

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Statistics or Social Theory 4</td>
<td>4 Social Statistics or Social Theory 4</td>
<td>4</td>
</tr>
<tr>
<td>Sociology (SOC) 200-level and above</td>
<td>3 Sociology (SOC) 300-level and above</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>6 General Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Total 16

Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 489</td>
<td>4 Sociology (SOC) 300-level and above</td>
<td>6</td>
</tr>
<tr>
<td>Sociology (SOC) 300-level and above</td>
<td>3 Sociology (SOC) Elective</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3 Minor</td>
<td>3</td>
</tr>
</tbody>
</table>
General Electives 6  General Elective 3

Total credit hours: 125

1. Select One: HY 101, HY 102, HY 104, HY 105, HY 120 or HY 121.
2. Select One: ARH 101, ARH 203, ARH 204, ARH 206, MU 120, THR 100, THR 105 or THR 200.
3. Select One: EH 216, EH 217, EH 218, EH 221, EH 222, EH 223 or EH 224.
4. SOC 410 or one of the following SOC 405, SOC 407 or SOC 415

General Sociology Minor

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Sociology Courses</td>
<td></td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Sociology Electives</td>
<td>15</td>
</tr>
<tr>
<td>Select 15 hours from Sociology (SOC) courses, with at least nine hours at the 300-level or above.</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

Grade & Residency Requirement

A "C" or Better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.

Medical Sociology Minor

Medical sociology focuses on study of the social causes and consequences of health and illness. In addition, it analyzes health organizations and institutions, the social behavior of health personnel and consumers of health care, as well as international patterns of health services. It is a particularly relevant minor for students preparing for a career in a health profession such as medicine, nursing, dentistry, or optometry.

A grade of "C" or Better is required for all courses within the Medical Sociology Minor.

Minor Requirements for Medical Sociology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>SOC 280 Introduction to Medical Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 283 The Sociology of Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>Social Diversity and Inequality</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>SOC 220 Sociology of Sex and Gender</td>
<td></td>
</tr>
<tr>
<td>SOC 250 Sociology of Race and Ethnicity</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 282 Minority Health</td>
<td></td>
</tr>
<tr>
<td>SOC 385 Social Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC 415 Social Stratification</td>
<td></td>
</tr>
<tr>
<td>Health-Related Issues and Problems</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>SOC 240 Family Conflict and Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 275 Urban Sociology</td>
<td></td>
</tr>
</tbody>
</table>
Department of Sociology

SOC 282 Minority Health
SOC 383 Drugs and Society
SOC 456 Death and Dying
SOC 472 Homelessness: Causes and Consequences
SOC 480 Sociology of Health and Illness
SOC 482 Gender and Health

Elective
Select one of the following: 3
ANTH 435 Ethnomedicine and Ethnopsychiatry
PY 218 Abnormal Psychology
PY 305 Medical Psychology
SOC 135 Human Sexuality
SOC 240 Family Conflict and Violence
SOC 282 Minority Health
SOC 383 Drugs and Society
SOC 445 Biology and Society
SOC 455 Minority Aging
SOC 456 Death and Dying
SOC 472 Homelessness: Causes and Consequences
SOC 480 Sociology of Health and Illness
SOC 482 Gender and Health
SOC 490 Independent Study: Sociology

Total Hours 18

1 Must choose three of the following: Minority Women’s Health, Women’s Health, Women and Violence, Human Trafficking, Adolescent Pregnancy, Women and Reproduction, or Women and Sexuality

Grade and Residency Requirement
Transfer students must take at least 6 semester hours in sociology at UAB including at least 3 semester hours in courses numbered above 300. A grade of C or better is required in all courses applied toward the minor, including transfer courses.

Minor Requirements for Social Psychology

Requirements Hours
Introductory Sociology Courses
SOC 100 Introduction to Sociology 1 3
SOC 120 Introduction to Social Psychology 3
Social Psychology Electives
Select four of the following courses, with at least three at the 300-level or above: 12
PY 212 Developmental Psychology 2
PY 218 Abnormal Psychology
PY 319 Psychopathology and Culture
PY 372 Social Psychology
SOC 130 Intimate Relationships and the Family
SOC 135 Human Sexuality
SOC 220 Sociology of Sex and Gender
SOC 240 Family Conflict and Violence
SOC 280 Introduction to Medical Sociology
SOC 283 The Sociology of Mental Health
SOC 285 Introduction to Aging
SOC 323 Social Structure and Personality
SOC 340 Deviant Behavior
SOC 383 Drugs and Society
SOC 385 Social Psychology of Aging
SOC 405 Mind, Self and Society
SOC 445 Biology and Society
SOC 456 Death and Dying
SOC 457 Family Relations over the Life Course
SOC 469 Sociology of Aging
SOC 480 Sociology of Health and Illness
SOC 482 Gender and Health

Total Hours 18

1 SOC 100 Introduction to Sociology may also be eligible to count toward Core Curriculum Area IV.
2 PY 212 Developmental Psychology may also be eligible to count toward Core Curriculum Area IV.

Grade & Residency Requirement
A “C” or better is required in all courses applied to the minor. At least six hours of the minor must be completed at UAB, including three hours at the 300-level or above.

Honors Program in Sociology

Goal
The Sociology Honors Program is designed to help prepare outstanding undergraduate majors for graduate study in sociology or a career in medical sociology. The program offers a mentored research experience, and under faculty supervision, students will be exposed to a wide range of sociological perspectives and research areas.

Eligibility
Acceptance into the Sociology Honors Program requires the following:

• Completion of the required sociology courses including Introduction to Sociology, Theory, Research Methods and Statistics (by the end of the fall term of the year the student enters the honor’s program).
• An undergraduate cumulative GPA of 3.00 or above.
• A junior or senior level standing (admittance to Honors Program must take place before August 1).
• A cumulative GPA in Sociology courses of 3.3 or above.

Requirements
The following is required to graduate with honors in the Sociology Honors Program:

• Completion of the required sociology courses.
• Completion of two-semester Honors seminar 498/499.
• Completion of a senior-level thesis or Service Learning Project or Research Project under faculty supervision.

Benefits
Participation in the Sociology Honors Program provides a unique opportunity for highly motivated, academically talented undergraduate students to have access to and interact with faculty in an environment that encourages creativity and independent scholarship. Seminar participation and research experience will be important to nurturing the student’s sociological imagination. Completion of the Honors...
Program is an advantage when applying to graduate school or looking for employment in an appropriate discipline-oriented field. Finally, students who complete the program will graduate “With Honors in Sociology.”

Contact
For additional information and/or admission to the Sociology Honors Program, contact:

The Director of Undergraduate Programs
Department of Sociology
460H Heritage Hall Bldg
Birmingham, AL 35294-1152
Telephone: (205) 934-3307

Honors Program in Social Psychology

Goal
The Social Psychology Honors Program is designed to help prepare outstanding undergraduate majors for graduate study in Social Psychology or a career in medical Social Psychology. The program offers a mentored research experience, and under faculty supervision, students will be exposed to a wide range of sociological perspectives and research areas.

Eligibility
Acceptance into the Social Psychology Honors Program requires the following:

• Completion of the required Social Psychology courses; including Introduction to Sociology, Theory, Research Methods and Statistics (by the end of the fall term of the year the student enters the honor’s program).
• An undergraduate cumulative GPA of 3.00 or above.
• Junior or senior level standing (admittance to Honors Program must take place before August 1).
• Cumulative GPA in Social Psychology courses of 3.3 or above.

Requirements
The following is required to graduate with honors in the Social Psychology Honors Program:

• Completion of the required Social Psychology courses.
• Completion of two-semester Honors seminar 498/499.
• Completion of a senior-level Thesis or Service Learning Project or Research Project under faculty supervision.

Benefits
Participation in the Social Psychology Honors Program provides a unique opportunity for highly motivated, academically talented undergraduate students to have access to and interact with faculty in an environment that encourages creativity and independent scholarship. Seminar participation and research experience will be important to nurturing the student’s sociological imagination. Completion of the Honors Program is an advantage when applying to graduate school or looking for employment in an appropriate discipline-oriented field. Finally, students who complete the program will graduate “With Honors in Social Psychology.”

Contact
For additional information and/or admission to the Social Psychology Honors Program, contact:

The Director of Undergraduate Programs
Department of Sociology
460H Heritage Hall Bldg
Birmingham, AL 35294-1152
Telephone (205) 934-3307

Department of Theatre

Chair: Mr. Kelly Dean Allison, MFA

The Department of Theatre subscribes to the philosophy that classroom study and practical experience are complementary and of equal value. A wide array of courses related to the performing arts and film are taught in well equipped studios and smart classrooms. Production opportunities are available in state-of-the-art production facilities, the Morris K. Sirote Theatre and the Odess Theatre in the Alys Robinson Stephens Performing Arts Center.

Majors
The Department of Theatre offers a Bachelor of Arts (BA) in Theatre, a Bachelor of Fine Arts (BFA) in Musical Theatre, a minor in Theatre, and an individually designed major (IDM) in Film. In addition, students can earn an interdisciplinary minor in Film Studies. The department also offers an honors program for qualified students.

All BA Theatre majors are admitted on a general track. Those who wish to specialize are given the opportunity to audition and interview for one of two pre-professional concentrations: Performance or Design and Production. The general track provides a student with a broad education in all areas of theatre. The pre-professional performance concentration focuses on acting, with an emphasis on movement and vocal training. The pre-professional design and production concentration focuses on developing design and production skills in the areas of scenery, costume, lighting and audio.

The Musical Theatre BFA training program focuses on musical theatre performance skills with 72 semester hours in theatre, music and dance. An audition is required to declare a Musical Theatre major. Auditions are held three times during the academic year starting in November. Enrollment is limited to students who wish to pursue a Musical Theatre BFA are encouraged to audition early.

An Individually Designed Major is a program of study that is tailored to the individual needs of each student and is available to self-motivated students. Film IDM majors normally begin with a common 30 credit hour core of film-related courses. A minimum of fifteen additional credit hours are chosen by students in areas that will prepare them to accomplish their specific career goals. All IDM plans of study require approval from the Department of Theatre Chair and the Dean of the College of Arts and Sciences, as well as consultation with a faculty mentor and an academic advisor in the College of Arts and Sciences.

Theatre faculty provide individual mentoring and advising to help students matriculate and achieve their academic and professional goals. All majors and minors are expected to show progress toward completing university core requirements, participate in department productions, and
to be professional both in attitude and actions while representing the department.

**Scholarships, Stipends, and Other Financial Aid**

In addition to university financial aid, stipends and scholarships are available through the Department of Theatre to qualified students. Students awarded Theatre stipends and scholarships are expected to remain in academic good standing. Department scholarships require an overall GPA of 2.5 and a 3.0 GPA for all Theatre courses. Students with department stipends must maintain an overall GPA of 2.25. For more information, call (205) 934-3236 or visit the department web site at www.uab.edu/cas/theatre.

**Theater Major Requirements: General Theater Concentration**

<table>
<thead>
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<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
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<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THR 154 Beginning Acting</td>
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<tr>
<td>THR 160 Theatre Cornerstone</td>
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<tr>
<td>THR 210 Introduction to Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>THR 365 Directing I</td>
<td>3</td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td>3</td>
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<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
<td>3</td>
</tr>
<tr>
<td>THR 491 Theatre Capstone</td>
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<tr>
<td><strong>Theatre Design</strong></td>
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<td>Select three hours from the following:</td>
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<tr>
<td>THR 323 Lighting Design</td>
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<tr>
<td>THR 325 Theatre Sound Design and Technology</td>
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<tr>
<td>THR 326 Scenic Design</td>
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<tr>
<td>THR 327 Costume Design</td>
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<td><strong>Theatre Performance</strong></td>
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<tr>
<td>THR 202 Voice and Movement for the Actor I</td>
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<tr>
<td>THR 203 Voice and Movement for the Actor II</td>
<td></td>
</tr>
<tr>
<td>THR 254 Intermediate Acting</td>
<td></td>
</tr>
<tr>
<td>THR 258 Musical Theatre Performance I</td>
<td></td>
</tr>
<tr>
<td>THR 318 Stage Combat</td>
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<td>THR 343 Experimental Performance</td>
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<td>THR 355 Advanced Acting</td>
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<td>THR 377 Acting for the Camera</td>
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<td>THR 430 Auditioning</td>
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<tr>
<td>THR 435 Dialects</td>
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<tr>
<td>THR 465 Directing II</td>
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<td><strong>Theatre Writing</strong></td>
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<td>THR 200 Plays on Film</td>
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<tr>
<td>THR 215 Playwriting I</td>
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<tr>
<td>THR 216 Screenwriting I</td>
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<tr>
<td>THR 300 Exploring the African-American Creative Experience</td>
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<tr>
<td>THR 350 Costume History and Period Style for the Theatre</td>
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<tr>
<td>or THR 450 Costume History and Period Style for the Theatre</td>
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<tr>
<td><strong>Theatre Practicum</strong></td>
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<tr>
<td>Complete 3 hours 1</td>
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<tr>
<td>THR 204 Beginning Production Practicum</td>
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</tr>
<tr>
<td>THR 205 Beginning Performance Practicum</td>
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**Theatre Electives**

Select six hours from the following:

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<th>Hours</th>
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<td>3</td>
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<tr>
<td>3</td>
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<tr>
<td>2</td>
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1 One hour may be THR 205 performance, two hours must be technical THR 204.
Students may NOT apply THR 105 or THR 200 toward both this requirement and the Core Curriculum Area II requirement.

Major Requirements for Theatre with a Concentration in Pre-Professional Design & Technology

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Required Courses</td>
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<tr>
<td>THR 124</td>
<td>Theatre Technology: Scenery and Lighting</td>
</tr>
<tr>
<td>THR 125</td>
<td>Theatre Technology: Costumes and Makeup</td>
</tr>
<tr>
<td>THR 154</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THR 160</td>
<td>Theatre Cornerstone</td>
</tr>
<tr>
<td>THR 210</td>
<td>Introduction to Theatrical Design</td>
</tr>
<tr>
<td>THR 235</td>
<td>Analysis of Dramatic Literature</td>
</tr>
<tr>
<td>THR 365</td>
<td>Directing I</td>
</tr>
<tr>
<td>THR 481</td>
<td>Theatre History to 1860</td>
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<tr>
<td>THR 482</td>
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<tr>
<td>THR 491</td>
<td>Theatre Capstone</td>
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<tr>
<td>THR 323</td>
<td>Lighting Design</td>
</tr>
<tr>
<td>THR 326</td>
<td>Scenic Design</td>
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<tr>
<td>THR 327</td>
<td>Costume Design</td>
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<td>Theatre Practicum</td>
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<tr>
<td>THR 204</td>
<td>Beginning Production Practicum</td>
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<tr>
<td>THR 205</td>
<td>Beginning Performance Practicum</td>
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Design & Technology Requirements

<table>
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<tr>
<th>Requirements</th>
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<tr>
<td>THR 226</td>
<td>Drawing and Rendering for the Theatre</td>
</tr>
<tr>
<td>THR 350</td>
<td>Costume History and Period Style for the Theatre</td>
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Design & Technology Electives

Select six hours from the following: 6

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>THR 325</td>
<td>Theatre Sound Design and Technology</td>
</tr>
<tr>
<td>THR 425</td>
<td>Pattern Drafting</td>
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<tr>
<td>THR 470</td>
<td>Individual Project in Design and Production</td>
</tr>
<tr>
<td>THR 471</td>
<td>Advanced Studio in Scenery</td>
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<td>THR 472</td>
<td>Advanced Studio in Costumes</td>
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<td>THR 473</td>
<td>Advanced Studio in Lighting</td>
</tr>
<tr>
<td>THR 474</td>
<td>Advanced Studio in Audio</td>
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</table>

Total Hours 51

1. One hour must be THR 205, two hours must be THR 204.

Major Requirements for Bachelor of Fine Arts in Musical Theatre

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>Required Courses</td>
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<tr>
<td>THR 100</td>
<td>Introduction to the Theatre</td>
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<tr>
<td>or THR 105</td>
<td>Introduction to Dance</td>
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<tr>
<td>THR 200</td>
<td>Plays on Film</td>
</tr>
<tr>
<td>THR 106</td>
<td>Jazz I</td>
</tr>
<tr>
<td>THR 107</td>
<td>Tap I</td>
</tr>
<tr>
<td>THR 108</td>
<td>Ballet I</td>
</tr>
<tr>
<td>THR 124</td>
<td>Theatre Technology: Scenery and Lighting</td>
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<tr>
<td>THR 125</td>
<td>Theatre Technology: Costumes and Makeup</td>
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<tr>
<td>THR 154</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THR 160</td>
<td>Theatre Cornerstone</td>
</tr>
<tr>
<td>THR 202</td>
<td>Voice and Movement for the Actor I</td>
</tr>
<tr>
<td>THR 203</td>
<td>Voice and Movement for the Actor II</td>
</tr>
<tr>
<td>THR 204</td>
<td>Beginning Production Practicum</td>
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<td>THR 205</td>
<td>Beginning Performance Practicum</td>
</tr>
<tr>
<td>THR 206</td>
<td>Jazz II</td>
</tr>
<tr>
<td>THR 208</td>
<td>Ballet II</td>
</tr>
<tr>
<td>THR 258</td>
<td>Musical Theatre Performance I</td>
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<tr>
<td>THR 259</td>
<td>Musical Theatre Performance II</td>
</tr>
<tr>
<td>THR 261</td>
<td>Musical Theatre Showcase I</td>
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<tr>
<td>THR 254</td>
<td>Intermediate Acting</td>
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<td>THR 306</td>
<td>Jazz III</td>
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<tr>
<td>THR 361</td>
<td>Musical Theatre Showcase II</td>
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<td>THR 355</td>
<td>Advanced Acting</td>
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<td>THR 405</td>
<td>Advanced Performance Practicum</td>
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<td>THR 430</td>
<td>Auditioning</td>
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<tr>
<td>THR 451</td>
<td>Musical Theatre History and Script Analysis</td>
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1. One hour may be THR 205 performance, two hours must be THR 204 technical.
## Proposed Program of Study for a Major in Theatre with a General Concentration

### Freshman

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>THR 160</td>
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</tr>
<tr>
<td>THR 154</td>
<td></td>
<td>3</td>
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<tr>
<td>THR 124 or 125</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 160</td>
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<td>3</td>
</tr>
<tr>
<td>THR 124 or 125</td>
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<thead>
<tr>
<th>Total Hours</th>
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<tr>
<td></td>
<td><strong>83-86</strong></td>
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1. **Remarks:**
   - This course must be repeated once.

2. Dance Electives are taken during the last two semesters, two hours per semester for a total of four hours. Students should consult the Department of Theatre for information about approved courses.

### Sophomore

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>THR 210 or 235</td>
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<td>THR 204</td>
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<tr>
<td>Performance Component</td>
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### Junior

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<tr>
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<td>THR 204</td>
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<th>Hours</th>
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<tr>
<td>THR 365 (or Design Component)</td>
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<tr>
<td>Theatre History</td>
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### Senior

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## Proposed Program of Study for a Theatre Major with a Concentration in Design and Production

### Freshman

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>THR 160</td>
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<td>3</td>
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<tr>
<td>THR 124 or 125</td>
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<td>THR 154</td>
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### Sophomore

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<td>Performance Component</td>
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### Junior

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<td>THR 204</td>
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### Senior

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<table>
<thead>
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## Total credit hours: 51

1. **Remarks:**
   - Theatre History - Six required hours (Do not have to take in sequence): THR 481 and THR 482.
   - Design & Production Electives - Select six hours from the following: THR 325, THR 470, THR 472, THR 474, THR 474, THR 471, THR 473, or THR 474.
**Proposed Program of Study for a Major in Theatre with a Concentration in Theatre Performance**

**Freshman**
- **First Term**
  - THR 160 1
  - THR 124 or 125 3
  - THR 154 3
  - Total hours: 7

**Second Term**
- THR 124 or 125 3
- THR 154 3
- Total hours: 3

**Sophomore**
- **First Term**
  - THR 235 3
  - THR 202 3
  - THR 204 1
  - Total hours: 7

**Second Term**
- THR 204 1
- THR 210 3
- Total hours: 3

**Junior**
- **First Term**
  - THR 365 3
  - THR 203 3
  - THR History 3
  - Total hours: 10

**Second Term**
- THR 204 1
- THR 261 1
- THR 258 3
- Total hours: 5

**Senior**
- **First Term**
  - THR 377 or 465 3
  - THR 493 2
  - THR 124 3
  - Total hours: 15

**Second Term**
- THR 491 2
- THR 125 3
- THR 200 3
- Total hours: 13

**Total credit hours: 48**

1. Theatre History - Six required hours. (Do not have to take in sequence): THR 481 and THR 482.

**Proposed Program of Study for a Bachelor of Fine Arts in Musical Theatre**

**Freshman**
- **First Term**
  - MU 224 1
  - THR 160 1
  - Freshman Year Experience 1
  - MU 221 3
  - THR 202 3
  - THR 108 2
  - EH 101 3
  - MUP 140 1
  - Total hours: 15

**Second Term**
- MUP 240 1
- THR 106 2
- MUP 124 1
- THR 100 or 105 3
- University Core 3
- THR 281 1
- THR 258 3
- Total hours: 16

**Sophomore**
- **First Term**
  - MUP 240 1
  - THR 106 2
  - MUP 124 1
  - THR 100 or 105 3
  - University Core 3
  - THR 281 1
  - THR 258 3
  - Total hours: 15

**Second Term**
- THR 124 1
- THR 125 3
- University Core 3
- THR 281 1
- THR 258 3
- University Core 3
- Total hours: 12

**Junior**
- **First Term**
  - THR 365 3
  - THR 355 3
  - THR 318 3
  - THR 108 3
  - THR 203 3
  - University Core 3
  - Total hours: 15

**Second Term**
- THR 491 2
- THR 125 3
- THR 200 3
- Total hours: 13

**Senior**
- **First Term**
  - THR 493 2
  - THR 124 3
  - THR 200 3
  - Total hours: 15

**Second Term**
- THR 125 3
- THR 200 3
- University Core 3
- THR 204 1
- University Core/Lab 4
- Total hours: 14

**Total credit hours: 120-126**

**Minor Requirements for Theatre**

<table>
<thead>
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<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Required Theatre</strong></td>
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<td>THR 154 Beginning Acting</td>
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<tr>
<td>THR 210 Introduction to Theatrical Design</td>
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<tr>
<td>THR 235 Analysis of Dramatic Literature</td>
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<tr>
<td><strong>Theatre Technology</strong></td>
<td></td>
</tr>
<tr>
<td>THR 124 Theatre Technology: Scenery and Lighting</td>
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<tr>
<td>THR 125 Theatre Technology: Costumes and Makeup</td>
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</tr>
<tr>
<td><strong>Theatre History</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>THR 481 Theatre History to 1860</td>
<td></td>
</tr>
<tr>
<td>THR 482 Theatre History from 1860 to Present</td>
<td></td>
</tr>
<tr>
<td><strong>Theatre Electives</strong></td>
<td>6</td>
</tr>
<tr>
<td>Select six hours from the following:</td>
<td></td>
</tr>
<tr>
<td>THR 106 Jazz I</td>
<td>3</td>
</tr>
<tr>
<td>THR 107 Tap I</td>
<td>3</td>
</tr>
<tr>
<td>THR 108 Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>THR 202 Voice and Movement for the Actor I</td>
<td></td>
</tr>
<tr>
<td>THR 203 Voice and Movement for the Actor II</td>
<td></td>
</tr>
<tr>
<td>THR 204 Beginning Production Practicum</td>
<td></td>
</tr>
<tr>
<td>THR 206 Jazz II</td>
<td>3</td>
</tr>
<tr>
<td>THR 207 Tap II</td>
<td>3</td>
</tr>
<tr>
<td>THR 208 Ballet II</td>
<td>3</td>
</tr>
<tr>
<td>THR 215 Playwriting I</td>
<td></td>
</tr>
<tr>
<td>THR 216 Screenwriting I</td>
<td></td>
</tr>
<tr>
<td>THR 226 Drawing and Rendering for the Theatre</td>
<td></td>
</tr>
<tr>
<td>THR 230 Stage Management</td>
<td></td>
</tr>
<tr>
<td>THR 254 Intermediate Acting</td>
<td></td>
</tr>
<tr>
<td>THR 300 Exploring the African-American Creative Experience</td>
<td></td>
</tr>
</tbody>
</table>
Honors Program in Theatre

Purpose

The Theatre Honors Program is designed for outstanding students majoring in Theatre. Through mentored work on an individually developed creative project or research topic, students will develop skills in preparation for graduate school or a professional career.

Eligibility

Acceptance into the Theatre Honors Program requires the student to:

- Be a Theatre major.
- Have earned a 3.5 GPA in Theatre courses attempted.
- Have earned a 3.0 GPA overall.
- Have completed:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 124</td>
<td>Theatre Technology: Scenery and Lighting</td>
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<tr>
<td>THR 125</td>
<td>Theatre Technology: Costumes and Makeup</td>
</tr>
<tr>
<td>THR 154</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THR 210</td>
<td>Introduction to Theatrical Design</td>
</tr>
<tr>
<td>THR 235</td>
<td>Analysis of Dramatic Literature</td>
</tr>
</tbody>
</table>

- Have completed 60 hours toward the BA degree.
- Have completed at least two UAB Theatre production practicum.

Requirements

- Completion of required courses for the Theatre major.
- Arrangement with a faculty mentor for a creative or research project.
- Submission of a formal project proposal to the faculty mentor and the Honor’s committee.
- Registration for 3 credit hours of .
- Public presentation of the honors project.
- Acceptance of the completed project by the faculty mentor and the Honor’s committee.
- Submission of an archival copy of the project to the Theatre Department.

Benefits

In addition to the educational benefits of working on a mentored, individually designed project, honors majors receive a certificate at the Spring UAB Honors Convocation and will graduate “With Honors in Theatre.”

Contact

For more information and/or admission to the Theatre Honors Program, please contact:

Kelly Allison, Chair
Department of Theatre
ASC 255
(205) 934-8676
kallison@uab.edu

Honors College

The UAB Honors College brings together intellectually curious students from all majors to form a close-knit community of emerging scholars. Our honors courses are designed to prepare students to communicate effectively in written and oral form, demonstrate critical thinking skills, integrate knowledge across domains, participate effectively in team endeavors, and function as ethical citizens of communities.

All UAB Honors College students benefit from the following:

- Innovative honors seminars
- Honors sections of core and elective courses
- Unique experiential learning opportunities in service learning, undergraduate research, and study abroad
- Special speaker series, discussion groups, and student activities
- Smaller class sizes
- Additional academic advising
- Optional honors housing

UAB Honors College students can either pursue our Personalized Pathway or choose one of our Specialized Programs in global and community leadership (GCL), science and technology (STH), or interdisciplinary arts and sciences (UHP). We encourage students to visit http://www.uab.edu/honorscollege for additional information on the Personalized Pathway and Specialized Programs. In addition, many of our honors students participate in departmental (major-specific) honors programs or Fast Track Fifth Year Master’s Programs. When possible, we also offer opportunities for students to take special seminars typically
available only to graduate students. These enhanced curricular and co-curricular opportunities are designed to stimulate high-ability students, build community, and prepare students to accomplish their long-term goals.

Contacting the Honors College:

Mailing Address: Physical Address:
HBB 520 Heritage Hall, Room 520
172 2nd Avenue South 1401 University Blvd
Birmingham, AL 35294-1152 Birmingham, AL 35294

Phone: 205-996-4571

Email: honorscollege@uab.edu

UAB HONORS COLLEGE ADMISSION REQUIREMENTS

Incoming Freshmen:

In order to be admitted to the UAB Honors College, students must first be admitted to the University of Alabama at Birmingham. Following general university admission, there are two paths for incoming freshmen to join the UAB Honors College:

• Invitation – Admitted students with a minimum ACT score of 28 or SAT score of 1260 and a 3.5 GPA will receive an invitation in the mail to join the UAB Honors College. Students who join the UAB Honors College prior to January 15 will have the option of applying to specialized programs in science and technology, interdisciplinary arts and sciences, and global and community leadership. All students offered admission into the UAB Honors College or its programs must confirm their enrollment online no later than May 1 of their senior year.

• Application – Students who do not meet the standardized test score or GPA requirements must submit an application in order to be considered for admission. A committee of faculty and staff will review these materials and notify students of their admission status.

To learn more about enrolling in the UAB Honors College, please visit http://www.uab.edu/honorscollege/.

Current and Transfer Students:

Current UAB students and transfer students may be eligible for admission into the UAB Honors College, provided that they have earned at least 12 hours of credit with a minimum 3.5 collegiate GPA. All current and transfer students must earn at least 18 credits of honors-level coursework during their time at UAB. Prospective current and transfer students should contact the Office of Honors Advising and Retention at honorsadvising@uab.edu to discuss possible admission into the UAB Honors College based on their existing academic profiles and future trajectories.

CONTINUATION IN THE HONORS COLLEGE

UAB Honors College students are required to maintain a 3.0 cumulative UAB GPA to remain in good standing. Each student’s academic record is evaluated at the end of fall and spring semesters and any student who falls below the minimum requirement will be placed on immediate probation. A student on probation will be required to meet with an Honors College advisor or the director of their program to discuss the student’s action plan to raise the cumulative UAB GPA to at least 3.0. Students on probation have up to one year to raise their UAB GPA at least 3.0. The probation period ends when a student’s GPA rises to at least 3.0 or after 1 year has elapsed.

Continued failure to meet minimums after the one year probationary period will result in suspension from the Honors College. Suspension includes the loss of all privileges associated with being an honors student, including priority registration and honors graduation designation. In rare circumstances, a student may appeal to the Dean of the Honors College for an extension of the probation period or for reinstatement. Additional requirements may be required by individual honors programs for students to remain in good standing.

Honors-Level Courses

All UAB Honors College students must complete a minimum of 18 credit hours of honors-level coursework. Students who choose to earn 30 or more honors credits will receive a special designation from the university. Specific requirements for our Personalized Pathway and our Specialized Programs are detailed in these sections. Honors credits can be earned in the following ways:

1. Courses offered with an HC prefix
2. Courses offered with an STH, HON, or GCLH prefix
3. Honors-level course sections offered through academic departments
4. Honors by Contract* 
5. Courses required for departmental honors programs

*Honors by Contract allows students to augment their experiences in standard courses. Within the first two weeks of the semester, an interested student should meet with a faculty member to devise an honors contract. Contract details vary, but they share a commitment to academic excellence above and beyond the minimum requirements for the course. Some faculty may require additional readings, labs, papers, or research. Others may ask students to complete qualitatively different work while maintaining the same quantity of assignments. Once the faculty member and student have agreed on the contract, they both sign an Honors by Contract form which the faculty member submits to the UAB Honors College. Forms are due no later than the second week of the semester the student is enrolled in the course.

COMMITMENT TO EXCELLENCE

Honors College admission is a noteworthy achievement, recognizing not only demonstrated academic excellence but also potential for future success. The UAB Honors College is a scholarly community comprised of students, faculty, and staff who commit themselves to high standards of intellectual and personal integrity. As such, honors students should be among the most respectful, hard-working participants in any classroom. They should challenge themselves to think in new ways and to remain open to insight from others. In addition, they should be ethical community members continually looking for ways to serve their peers, the campus, and the local community.

Personalized Pathway

The UAB Honors College is dedicated to innovative courses, hands-on experience, service learning, and — most importantly — the individuality and diversity of our brilliant students.

Those learning experiences — and those unique students — just don’t fit into the standard college curriculum. To make sure their curiosity
is fed, their passion is pursued, and their fire stays stoked, we guide our students in charting their own course with their own personalized curriculum.

Working with an honors advisor, students develop their interests and talents into goals. They then work together to a personalized curriculum of honors coursework and experiential learning activities tailored to each individual student’s needs.

Honors-Level Courses

UAB Honors College students on our Personalized Pathway must complete a minimum of 18 credit hours of honors-level coursework. Students who choose to earn 30 or more honors credits will receive a special designation from the university.

Honors credits can be earned in any of the following ways:

1. Courses offered with an HC prefix
2. Courses offered with an STH, HON, or GCLH prefix
3. Honors-level course sections offered through academic departments
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Honors Seminar

Students are required to complete an honors seminar during their first year in the Honors College. Available seminars will be communicated each semester through the honors advisors.

Experiential Learning

Students are required to complete a minimum of one experiential learning course at UAB. These courses may include service learning, study abroad, research, or internships.

Specialized Programs

In addition to our personalized pathways, the UAB Honors College is home to three specialized honors programs. The Global and Community Leadership Honors Program (p. 260), Science and Technology Honors Program (p. 261), and University Honors Program (p. 263) require specific curricular and co-curricular experiences to thoroughly explore global and community leadership, science and technology, or interdisciplinary arts and sciences.

Experiential Learning Scholars Program

Assistant Director of Honors Advising and Retention: Mellissa Hulsey Taylor, MEd

The Experiential Learning Scholars Program (ELSP) is designed to enhance students’ academic coursework with pertinent, real-life experiences that take learning to an entirely new level. ELSP students combine service learning, undergraduate research, community engagement, internships, and leadership development into a unique, individualized honors experience.

Based on the outstanding success of this pilot program, the UAB Honors College now incorporates experiential learning for all honors students. Because experiential learning has been expanded to include all of our students, we are no longer accepting applications for this program. However, the ELSP ethos of integrating coursework with experiential learning lives on in the UAB Honors College. ELSP alumni can be proud to have piloted such an exceptional program, which has made a lasting imprint on the UAB Honors College.

Current ELSP students will continue their existing program requirements through graduation.

Experiential Learning Courses

EL 199. Honors Experiential Learning Plan. 0 Hours.
Provides an opportunity for a customized learning plan to integrate the student’s values, goals, academic plan to include but not limited to applicable and relevant research, service learning, and study abroad experiences.

EL 299. Experiential Learning Activity. 0 Hours.
Expansion of EL 199. Requires student engagement in the activities outlined in the Honors Experiential Learning Plan.

EL 499. Senior Honors Project. 0 Hours.
Cumulative synthesis of the student’s academic, real-world, and unique experiences in the field which is shared with other students and faculty.

Global & Community Leadership

Students in the Global and Community Leadership (GCL) Honors Program know that they’re members of a community — not just a local one, but a global one. Social justice issues like educational disparities, poverty, food insecurity, environmental degradation, and health care access touch lives in every country, in every big city and small village, at every socioeconomic level. GCL prepares honors students to explore, understand, and take a leadership role in addressing those issues and making lives better.

Vision

Through the GCL Honors Program, students combine their academic interests and personal passion to be transformational leaders for the 21st century.

Mission

The GCL Honors Program challenges students to think critically about how they can be good citizens of communities. GCL students gain appreciation of diverse perspectives and practice applying knowledge to community development.
Values

- Participatory citizenship
- Ethical leadership
- Creative problem-solving
- Effective communication

Application

For more information on applying to the Honors College or its programs, visit http://www.uab.edu/honorscollege. GCL is intentionally flexible and is available for students to enter as late as the third year.

COURSEWORK

GCL students must complete a minimum of 18 hours of designated honors coursework; students may complete 30 hours of honors coursework for a higher graduation designation.

Required GCL coursework

12 hours of designated GCL honors coursework:

Honors Seminar HC 110-120 (3 credit hours) – Seminar on a topic related to GCL's mission, topics vary annually

Burning Issues: GCLH 150 (3 credit hours) – Overview of various issues facing society (e.g., human rights, sustainability, healthcare access, educational reform). Course includes guest speakers, topical readings, and significant reflective writing. Ultimately, students will identify an issue that ignites their passion – their “burning issue.”

Fanning the Flame: Variable courses (3 credit hours) – Student will select a course that provides further exploration of the student’s “burning issue.”

Stoking the Fire - Leadership in Action: GCLH 350 (3 credit hours) – Students will learn, develop, and put into practice a pragmatic skill set for management and operations in social change leadership.

Six additional hours of honors coursework:

Students should take the remaining hours from approved honors courses relevant to GCL’s mission. GCL administration will designate appropriate honors courses for GCL students each semester, and students will choose the courses that are most applicable to their own passions and goals.

For students who choose to earn 30 hours of honors credit, the additional 12 hours of honors coursework can be earned through non-GCL specific honors seminars, honors sections of core courses, honors by contract, and/or school/departmental honors programs.

EXPERIENTIAL LEARNING

GCL students are required to complete a minimum of one experiential learning course at UAB. These courses may include service learning, study abroad, research, or internships. If taken for honors credit, the experiential learning course may help fulfill the honors requirement. If not taken for honors credit, the course will not be applied to the total number of honors credit hours but can still satisfy the experiential learning requirement.

Science and Technology Honors Program

Program Director: Diane C. Tucker, Ph.D.
Associate Directors: Joe L. March, Ph.D., and Joel Berry, Ph.D.
Program Manager: Clay Walls, B.A.

The Science and Technology Honors Program at UAB revolutionizes the undergraduate experience. Acceptance to the program places students in the company of fellow scholars and world-renowned researchers. Science and Technology Honors (STH) students synthesize ideas from multiple disciplines to tackle real, meaningful scientific problems. The unique, four-year STH curriculum of coursework, seminars, mentored research, and leadership challenges builds community and sharpens scientific thinking.

This unique program is the only one of its kind in Alabama. It is designed for the best and brightest students whose academic and extracurricular achievements demonstrate intellectual curiosity, energy, creativity, and leadership abilities. Graduates of the STH Program are well prepared for graduate study at the Master’s or Doctoral level as well as for professional school.

Mission

To prepare scientific leaders of the next generation by engaging students in interdisciplinary classroom, leadership, research, and innovation experiences which culminate in the dissemination of new scientific knowledge.

Vision

- UAB’s Science and Technology Honors Program will recruit a diverse group of talented undergraduate students, involve faculty from across the university as teachers and mentors, and provide a unique educational experience for students.
- Through interdisciplinary courses and laboratory research experiences, STH students will be exposed to the power of integrating multidisciplinary approaches and will apply this perspective to research and innovation problems.
- STH students will be trained in scientific thinking and communication and will conduct and disseminate original research or scholarship under the supervision of a faculty mentor.
- STH graduates will be well prepared for graduate and professional study and will show evidence of leadership in academic, economic, and policy areas related to science and technology during their careers.

Benefits

Students in the STH Program work closely with research faculty and participate in original scientific research. During the first two years, the program prepares students with the knowledge and skills they need to get started in research. Beginning as early as the freshman or sophomore year, students work closely with a faculty mentor on an individualized project, learning about research and innovation through apprenticeship. STH students are encouraged to attend national conferences and to publish their research in scientific journals.
The program is a closely knit community with approximately 50 undergraduate students admitted each year. The small number encourages collaboration among students, interaction with faculty, and sharing of ideas. Students receive priority registration and take science and technology focused sections of core courses such as English Composition II (EH 102). In addition, STH students can earn graduate credit, providing an advantage when pursuing an advanced degree.

Coursework

The academic portion of the Science and Technology Honors Program builds upon UAB’s research strengths in science and technology. Special interdisciplinary courses such as Introduction to the Scientific Process (STH 199) and the Interdisciplinary Seminar (STH 299) examine topics from many scientific and technical perspectives, illustrating how scientists integrate multiple fields of study when approaching research and development questions.

Students discover the methodologies and techniques used in a variety of research areas, including biology, cell biology, chemistry, molecular genetics, computer and information systems, engineering, neuroscience, psychology, physics, and more. In their Research Approaches (STH 201) course, students get hands-on experience in laboratory techniques and generate original data for presentation at the UAB Expo.

Exclusive seminars put students face to face with UAB’s best known researchers who share their insights and experiences from the lab and the field. The entire curriculum is designed to encourage independent thinking, questioning of ideas, innovative problem-solving, and skill in scientific communication. STH coursework also integrates seamlessly with honors programs in science and technology majors.

The program culminates in a two-year intensive research experience under the direction of UAB faculty. Students build upon the methods they have learned in their courses and seminars to propose and conduct an independent research or innovation project in collaboration with their faculty mentor. This project becomes the student’s Honors Thesis. The Honors Thesis is prepared for publication in a scientific journal and for presentation at a national conference. Thus, many STH students will both publish a scientific paper and present at a national conference before graduating from UAB. Students in the program must complete 30 hours of honors coursework, which includes 13 hours of Science and Technology Honors courses and at least 6 hours of independent research under the direction of a faculty mentor to complete their Honors Thesis research. Honors versions of many core courses have been developed and can contribute to the 30 hours of honors credit required.

Who Should Apply

This program is best suited for students who are intensely curious about science and excited about the prospect of becoming a generator of new knowledge in their field. In addition to curiosity about science, successful applicants generally have a strong academic record and plan to pursue a career in science or technology. STH students typically have a GPA of 3.5 or higher in their high school academic courses and ACT or SAT scores at or above the 90th percentile in math and science. Because the program values diversity and strives to accommodate talented students, applications are reviewed individually and invited applicants are personally interviewed.

Students interested in applying to STH must first be admitted to the UAB Honors College. Following admission to the College, interested students may then submit an application to the STH program. This application and two letters of reference must be received by January 15 of the student’s senior year of high school. For more information on applying to the Honors College or its programs, visit http://www.uab.edu/honorscollege/.

STH Signature Courses

Each student in the program takes the following STH Program coursework during their first two years in the program to prepare for their independent research experience.

STH 199 Introduction to the Scientific Process (3 s.h.). Fall semester of freshman year. Students work in teams to analyze current scientific problems under investigation by UAB faculty, learning about how scientists approach problems and conduct their research, including ethics and institutional review of human and animal research.

STH 201 Research Approaches (3 s.h.). Spring semester of freshman year. Systematic training in foundational research methodologies and opportunity to application of the methods in research laboratories. Students choose among biotechnology training, advanced chemical analysis, or engineering design and materials analysis.

STH 299 Interdisciplinary Seminar (3 s.h.). Fall semester of sophomore year. This course illustrates the synergy achieved by interdisciplinary analysis of problems. Example topics include High Voltage Innovation, Neurobiology of Learning and Memory, Energy Generation and Conservation, Disorders of the Central Nervous System, and Creating a Culture of Sustainability.

STH 301 Statistics and Design Overview (3 s.h.). Spring semester of sophomore year. Introduction to principles of research design and statistical analysis, including a statistics laboratory for hands on experience. Students may satisfy this requirement by earning credit for an equivalent statistics course approved by the STH program director, e.g., PUH 250, PY 216, or MA 180. Alternative credit through AP or IB may also be accepted.

Curriculum

To graduate with University Honors in Science and Technology, students must complete a minimum of 30 semester hours of honors coursework including the following courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Seminars</td>
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<tr>
<td>STH 199</td>
<td>Introduction to the Scientific Process</td>
</tr>
<tr>
<td>STH 299</td>
<td>Interdisciplinary Seminar</td>
</tr>
<tr>
<td>or NBL 245</td>
<td>The Neurobiology of Learning and Memory</td>
</tr>
<tr>
<td>Research Methods/Applications</td>
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<tr>
<td>STH 201</td>
<td>Research Approaches</td>
</tr>
<tr>
<td>or CH 201</td>
<td>Research Methods in Chemistry</td>
</tr>
<tr>
<td>Scientific Communication/Technical Writing</td>
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<tr>
<td>EH 102</td>
<td>English Composition II (honors scientific communication section)</td>
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<tr>
<td>or EH 202</td>
<td>English Composition II: Scientific and Technical Communication</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>STH 301</td>
<td>Statistics and Design Overview</td>
</tr>
<tr>
<td>or PUH 250</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>Honors Thesis Preparation</td>
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</tr>
<tr>
<td>STH 395</td>
<td>Honors Proposal Preparation</td>
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<td>STH 400</td>
<td>Honors Thesis Preparation</td>
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<tr>
<td>Honors Research</td>
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### Proposed Program of Study for Science and Technology Honors Students

#### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STH 199</td>
<td>3</td>
<td>STH 201 or CH 201</td>
</tr>
<tr>
<td>English Composition I or II</td>
<td>3</td>
<td>STH 151</td>
</tr>
<tr>
<td>PY 201&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
<td>CH 119&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td>CH 114&lt;sup&gt;2&lt;/sup&gt;</td>
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**Total:** 10 Hours

#### Sophomore

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STH 299 or NBL 245</td>
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<td>STH 301 or PUH 250</td>
</tr>
<tr>
<td>STH 250</td>
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**Total:** 4 Hours

#### Junior

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STH 398&lt;sup&gt;3&lt;/sup&gt;</td>
<td>2</td>
<td>STH 398&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td></td>
<td></td>
<td>STH 395</td>
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</table>

**Total:** 2 Hours

#### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Second Term</th>
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</thead>
<tbody>
<tr>
<td>STH 399&lt;sup&gt;3&lt;/sup&gt;</td>
<td>2</td>
<td>STH 399&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td></td>
<td></td>
<td>STH 400</td>
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</table>

**Total:** 2 Hours

**Total credit hours: 30**

### Optional STH Electives

<table>
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<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STH 310</td>
<td>Communicating Science 1-3</td>
</tr>
<tr>
<td>STH 350</td>
<td>Next Level Leadership 1-3</td>
</tr>
<tr>
<td>STH 394</td>
<td>Clinical Innovation Seminar 1-3</td>
</tr>
<tr>
<td>STH 396</td>
<td>Internships/Community Projects/SL 1-3</td>
</tr>
<tr>
<td>STH 397</td>
<td>Independent Study 1-3</td>
</tr>
</tbody>
</table>

### University Honors Program

**Program Director:** Michael E. Sloane, Ph.D.
**Associate Director:** William J. Rushton, IV, Ph.D.
**Program Manager:** Donna Andrews, M.P.A.
**Student Counselor:** Rebecca Freeman, M.A.

The University Honors Program draws on the wide range of resources available at a comprehensive research university and concentrates those resources within a small, personal, liberal arts setting. Designed for students who want to satisfy their intellectual curiosity both inside and outside the classroom, the program accepts about 50 students a year representing a wide variety of disciplines, backgrounds, and interests. The program offers an innovative, interdisciplinary arts and sciences curriculum taught by faculty who are known for their excellence in teaching and scholarship. Without delaying progress toward a degree, the University Honors Program provides students an opportunity to participate in a community of committed scholars, to form close relationships with faculty, to explore new ideas, and to share their ideas and interests in the friendly confines of the Spencer Honors House.

### Benefits

Benefits in the University Honors Program (UHP) receive a more intensive and innovative education that consists of a 33 credit hour interdisciplinary arts and sciences curriculum that replaces a student’s regular core curriculum without adding any additional time to degree completion. Students take two, nine-credit hour interdisciplinary courses and five UHP honors seminars on topics not offered in the regular academic departments. Since the five UHP honors seminars are capped at 16 UHP students, they get to know their instructors and other students very well, providing a sense of community and identity within the larger university context. UHP students have the opportunity to develop their leadership skills by involvement with several student-lead UHP committees and university-wide organizations and initiatives. UHP students receive priority registration and are typically involved in undergraduate research mentored by renowned faculty.

The Spencer Honors House, with all of its facilities, belongs exclusively to students in the UHP and is accessible to them at all times. UHP students have the opportunity to participate in a wide variety of cultural, social, and scholarly events and are funded to present their research at state, regional, and national honors conferences. After completing the program,

### Footnotes

a. Students may satisfy the statistics requirement by taking credit for an equivalent statistics course approved by the STH program director, e.g., PUH 250 Biostatistics, PY 216 Elementary Statistical Methods, or MA 180 Introduction to Statistics. Alternative credit through AP or IB may also be accepted.

b. Students may also register for research credit under the equivalent course(s) in the department of their major, e.g., BY 398, CH 497, BME 494, PY 398, NBL 398, PH 498, CS 398, MA 398, BMD 497, etc. These are interchangeable with STH 398 and STH 399 and are all counted as honors hours.

1. Students should take an honors section of EH 102 focused on scientific communication either in fall or spring of the first year, depending on whether they come to UAB with credit for EH 101. Students who come to UAB with credit for EH 102 should take this course at the 200-level as EH 202, usually in their first semester.

2. Students may substitute other honors electives for PY 201, CH 114, and/or CH 119. Examples include:
   - honors-designated sections of core/major courses, e.g., CH 115, CH 235, MA 225
   - any courses with the STH or HC prefix, e.g., STH 394, STH 397, HC 300
   - honors-by-contract courses
   - additional honors research, e.g., STH 398, STH 399

3. Students must have a minimum of 6 research hours comprised of any combination of STH 398, STH 399, and/or their departmental research credit equivalents. Students may earn research credit in fall, spring, and/or summer semesters. All honors research credit applies to the 30 hours of honors credit needed to complete the program.
students graduate with a special designation on their transcripts. In addition, UHP students are recognized annually at the UHP Honors Day ceremony. Graduation from the UHP, with its broad interdisciplinary arts and sciences curriculum gives students a distinct advantage when applying for national awards and scholarships as well as graduate or professional schools.

**Spencer Honors House**

The center of identity and community for the University Honors Program is the Spencer Honors House, located on campus in the spacious and attractive environment of the Old Church at 1190 10th Avenue South. All instructional and social activities of the University Honors Program take place there. The Spencer Honors House is also available for day-to-day use by UHP students for recreation, studying, meeting, and relaxing. The facilities include a kitchen, lounge areas, library, computer clusters, and pool and Ping-Pong tables. The offices of the director, associate director, program manager, and student counselor are also located in the Spencer Honors House.

**Scholarships**

The Hess-Abroms Honors Scholarships, awarded annually, are valued at $24,000 each and provide $6,000 per year. Application is open to incoming freshmen. The award is based on superior academic achievement, creativity or talent, strong motivation, character, and intellectual promise. Application materials are made available at the time of interview. The University Honors Program also has a number of smaller ($1,000-$2,000) annual scholarships that are awarded in May each year. Students who have committed to entering the program can apply for these scholarships that are distributed based on merit and need.

**Application**

For more information on applying to the Honors College or its programs, visit [http://www.uab.edu/honorscollege/](http://www.uab.edu/honorscollege/).

**Honors Coursework**

Instead of the 41 semester hours of Core Curriculum requirements, students in the University Honors Program take 33 semester hours of honors coursework and three semester hours in mathematics. In addition, they participate in a variety of special events, most of which are centered in the Spencer Honors House. While in no way delaying progress toward a degree or interfering with commitment to a major, the University Honors Program provides a stimulating range and depth of scholarly pursuits within an interdisciplinary arts and sciences context. Students have frequent individual contact with the teaching faculty and have unusual opportunities for independent projects and research.

Honors students have two options for completing their 33 semester hours in honors:

- Two 9-semester-hour fall-semester interdisciplinary honors courses plus five 3-semester-hour honors seminars (only two of which can be related to the student’s major or minor); or
- Two 9-semester-hour fall-semester interdisciplinary honors courses, a minimum of three 3-semester-hour honors seminars (not related to the student’s major or minor), and up to six semester hours of departmental honors coursework within the student’s major (with the total number of semester hours adding up to 33).

The interdisciplinary honors courses are offered during the fall semester and are open only to University Honors students. These courses are team-taught by faculty members (usually six) from different schools in the university and by guest lecturers from the medical center, the business, and other areas. Each interdisciplinary course is organized thematically and designed to cover a broad range of material so the student is introduced to all areas covered by the Core Curriculum and to a wide variety of other areas as well. Topics of past interdisciplinary courses have included "Minds and Realities," "In Search of Human nature," "It's About Time," and "The Anatomy of Desire." As part of the course, each student works on an independent project related to the central theme. Since instructors are committed to full-time teaching of this course, students receive ample advice and guidance on their projects.

The University Honors program offers about 18-20 different honors seminars each year. Some are cross-listed in other departments and so are open to all students at UAB. These seminars are offered during the fall semester, spring semester, and summer term and are limited to 16 students. Honors seminars are available in a variety of different fields and focus on issues that are of major interest within the field and also have implications and applications beyond it. Examples of honors seminars which have been taught are "Ethnographic Filmmaking," "China's Next phase," "Cognitive Brain Imaging," Philosophy, Psychology, and the Economics of Happiness," Existentialism and Modern Literature."

**Additional Information about the Curriculum Core Requirement in Mathematics**

In addition to the honors coursework, University Honors Program students must fulfill the mathematics requirement of Area III of the Core Curriculum.

**Credit for Participation in Honors**

Students may receive up to three semester hours of credit, graded on a pass/fail basis, for participating in the range of special events sponsored by the University Honors Program. Those events include:

- The monthly lecture
- First Thursday Lecture series
- Afternoon receptions for visiting speakers
- The fall film series
- Workshops
- Field trips

**Credit for Community Service**

Students may receive up to three semester hours of credit, graded on a pass/fail basis, for completing long-term service projects. Available projects are announced before each semester and typically include:

- Work at a recycling center
- Homeless shelter
- Public school

As well as regular meetings to reflect on these service projects.

**Independent Study**

Students may propose an internship or independent study project in place of one seminar. An example of such a project is an internship at city hall, leading to a policy proposal on some area of city government. Proposals for these projects must be approved by the Honors Council.
Honors Research

Students can register for one, two, or three credit hours of Honors Research, and receive a letter grade for their research. Students arrange for a research mentor and conduct a project under the guidance of a faculty mentor.

Continuation in the Program

A student who leaves the University Honors Program for any reason will receive full credit toward graduation for all coursework completed in the program. The director of the University Honors Program will designate which of the Core Curriculum requirements have been fulfilled by the individual student’s honors coursework. In addition to the UAB Honors College's requirement to maintain a 3.0 cumulative UAB GPA, UHP students are expected to maintain a 3.0 average in University Honors Program coursework.

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three 100 level</td>
<td>9</td>
<td>One Honors Seminar</td>
<td>3</td>
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<tr>
<td>Honors courses - selection is dependent on Fall offering¹</td>
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<td></td>
<td></td>
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<tr>
<td>Select two (non-honors) courses in major/pre-professional courses</td>
<td>6</td>
<td>Select four (non-honors) courses in major/pre-professional courses</td>
<td>12</td>
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<td>15</td>
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Sophomore

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Select three 200 level</td>
<td>9</td>
<td>One Honors Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Honors courses - selection is dependent on Fall offering²</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Select two (non-honors) courses in major/pre-professional courses</td>
<td>6</td>
<td>Select four (non-honors) courses in major/pre-professional courses</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
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</table>

Junior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Honors Seminar</td>
<td>3</td>
<td>One Honors Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Select four (non-honors) courses in major/pre-professional courses</td>
<td>12</td>
<td>Select four (non-honors) courses in major/pre-professional courses</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Honors Seminar</td>
<td>3</td>
<td>Select five courses in major/minor/pre-professional courses</td>
<td>15</td>
</tr>
<tr>
<td>Select four (non-honors) courses in major/minor/pre-professional courses</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total credit hours: 120

¹ Select 3 of the following: HON 101, HON 102, HON 103, HON 104, HON 105, HON 106, HON 107, HON 108, HON 109, HON 111, HON 151, HON 152, HON 154, HON 155, HON 156, HON 157, HON 159, HON 161, HON 162

² Select 3 of the following: HON 201, HON 202, HON 203, HON 204, HON 205, HON 206, HON 207, HON 208, HON 209, HON 211, HON 251, HON 252, HON 254, HON 255, HON 257, HON 258, HON 259, HON 261, HON 262

School of Education

Dean: Deborah L. Voltz

The School of Education offers a wide range of educator preparation degrees and teacher certification options as well as non-teacher education degrees, majors, and concentrations.

Educator Preparation Options. The School of Education offers educator preparation options that are fully approved by the Council for the Accreditation of Educator Preparation (CAEP) and the Alabama State Board of Education (ALSBOE). These options lead to Bachelor of Science degrees and Alabama teacher certification in early childhood and elementary education, high school (secondary) education, and kinesiology (physical education). The School of Education also collaborates with the College of Arts and Sciences to offer pathways to teacher certification in a wide range of teaching fields, including music, science, and mathematics.

Kinesiology, Community Health, and Human Services Preparation Options. There are several non-educator preparation options available for individuals seeking degrees at the undergraduate level. These degrees prepare students for employment in a variety of wellness, health, and fitness and sports (community, commercial, clinical, and corporate) agencies/facilities and/or admission to health-related graduate programs (e.g., physical therapy, medicine, occupational therapy). Degrees, majors, and concentrations are available in community health, human services, and kinesiology.

Educator Preparation Programs

At the undergraduate level, students may complete programs that lead to Alabama Class B certification in the following areas:

<table>
<thead>
<tr>
<th>Certification Area &amp; Grade Levels</th>
<th>Undergraduate Major</th>
<th>Teacher Education Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology (6-12)</td>
<td>Biology</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Chemistry (6-12)</td>
<td>Chemistry</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Early Childhood (P-3) and Elementary Education (K-6)</td>
<td>Early Childhood &amp; Elementary Education*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>English Language Arts (6-12)</td>
<td>Secondary Education/ English*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>General Science (6-12)</td>
<td>Biology, Chemistry, or Physics**</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>General Social Science (6-12)</td>
<td>High School and Middle School Education/ General Social Science*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Mathematics (4-8)</td>
<td>Mathematics</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Mathematics (6-12)</td>
<td>High School and Middle School Education/ Mathematics*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
</tbody>
</table>
The School of Education offers the following minors:

<table>
<thead>
<tr>
<th>Minor</th>
<th>Program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Coaching</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
</tbody>
</table>

Non-Teacher Certification Programs

At the undergraduate level, students may complete non-teacher certification concentrations in the following areas:

<table>
<thead>
<tr>
<th>Program Area/Concentration</th>
<th>Undergraduate Major</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Health</td>
<td>Community Health and Human Services</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Exercise Science</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Fitness Leadership</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Human Services</td>
<td>Community Health and Human Services</td>
<td>Human Studies</td>
</tr>
<tr>
<td>2+2 Early Childhood Non-Certification</td>
<td>Early Childhood Education</td>
<td>Curriculum and Instruction</td>
</tr>
<tr>
<td>4 Year Early Childhood Non-Certification</td>
<td>Early Childhood Education</td>
<td>Curriculum and Instruction</td>
</tr>
</tbody>
</table>

School of Education Minors

The School of Education offers the following minors:

<table>
<thead>
<tr>
<th>Minor</th>
<th>Program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Coaching</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
</tbody>
</table>
• 3.5 GPA in Education courses taken, 3.0 GPA overall.

In order to participate in the Honors Program and graduate with "Honors Designation", students must file an application with the Office of Curriculum & Instruction (Room 100) following an invitation from the respective program area. Following acceptance, students must enroll and complete the following two Education Honors Courses: EDH 491 - Honors Education Research and EDH 492 - Honors Education Service Project. Students must maintain an overall GPA of 3.0 or above and 3.25 in education courses through graduation.

EDH 491 - Education Research. Prerequisite: admission into the EEC Honors Program.

EDH 492 - Honors Education Service Project. Prerequisite: admission into the EEC Honors Program and completion of EHS 491.

Admission and Program of Student Requirements

Admission and program of student requirements for all undergraduate degrees, majors, and concentrations may be located at http://www.uab.edu/education/studentservices/admissions/checklists/undergraduate/bachelors

TEP Retention Requirements

A student may be dropped from the Teacher Education Program for failure to maintain satisfactory academic performance or professional dispositions as described by School of Education policy. Consistent with UAB policy on readmission, students readmitted to UAB must complete all program requirements, including TEP admissions and retention and completion requirements as outlined in the catalog under which they are officially readmitted.

1. Additional retention requirements by program:
   a. Early Childhood/Elementary Education
      i) Grade of "C" or better in all Pedagogy I courses (EDR 440, EEC 402, EEC 405, EEC 406, and EEC 494) and a GPA of 3.0 or higher in the Pedagogy I courses.
      ii) Grade of "C" or better in all Pedagogy II courses (EEC 412, EEC 413, EEC 414, EDR 443, and EEC 494) and a GPA of 3.0 or higher in the Pedagogy II courses.

Student Teaching Requirements

All students seeking baccalaureate degrees leading to teaching certificates must participate in a student teaching internship. All students must apply for student teaching by January 31 of the academic year that precedes student teaching. Applications are available online at the School of Education website, Office of Clinical Experiences. For additional information contact the Office of Clinical Experiences in Suite 232 of the Education Building.

To be eligible for this internship, students must have an approved student teaching application based on the following:

Early Childhood/Elementary Education:

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Early Childhood/Elementary program.
3. Minimum higher education GPA of 2.50.
4. Minimum GPA of 2.50 in core curriculum courses.
5. Minimum GPA of 2.75 in all Professional Studies courses.
6. Minimum GPA of 3.00 in all Teaching Field courses.
8. Passing score on all three parts of the Alabama Educator Certification Testing Program (AECTP).
9. Passing score on all parts of the Praxis II: Elementary Education Multiple Subjects (Code 5001).
11. Passing score on Praxis II: Elementary Education Multiple Subjects (Code 5001).
12. Passing score on Praxis II: Teaching Reading (Code 5204).
13. Demonstration of the dispositions needed to be successful as a teacher of young children, including children with special needs.
14. Documentation of requisite contact hours (150 hours) in schools.
15. Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

Students approved to teach in Early Childhood/Elementary Education must be concurrently enrolled in EEC 490 Internship in P-3/3-6 and EEC 491 Internship Seminar in P-6 Education. Students cannot take additional coursework besides these two courses during the term in which they student teach.

Kinesiology:

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Kinesiology program.
3. Minimum higher education GPA of 2.50.
4. Minimum GPA of 2.50 in core curriculum courses.
5. Minimum GPA of 2.50 in all Professional Studies courses.
6. Minimum GPA of 2.75 in all Professional Studies courses.
8. Passing score on all three parts of the Alabama Educator Certification Testing Program (AECTP).
10. Passing score on Praxis II: Elementary Education Multiple Subjects (Code 5001).
11. Passing score on Praxis II: Elementary Education Multiple Subjects (Code 5001).
12. Passing score on Praxis II: Elementary Education Multiple Subjects (Code 5001).
13. Demonstration of the dispositions needed to be successful as a teacher of young children, including children with special needs.
14. Documentation of requisite contact hours (150 hours) in schools.
15. Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

High School and Middle School Education:

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the High School Education program.
3. Minimum higher education GPA of 2.50.
4. Minimum GPA of 2.50 in core curriculum courses.
5. Minimum GPA of 2.50 in all Professional Studies courses.
6. Minimum GPA of 2.50 in all Teaching Field courses.
7. Completion of all coursework. In some instances, a student may be allowed to take a teaching field course during the semester that immediately follows the student teaching semester. Students should regularly consult with their advisor to plan their program so that all teaching field courses are completed prior to student teaching.
8. Passing score on all three parts of the Alabama Educator Certification Testing Program (AECTP).
9. Passing score on the appropriate Praxis II Subject Assessment.
11. Demonstration of the dispositions needed to be a successful teacher of middle and high school students, including students with special needs.
12. Documentation of requisite contact hours (150 hours) in schools.
13. Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

Students approved to teach in Secondary Education must be concurrently enrolled in EHS 490 Secondary School Student Teaching I and EHS 489 Internship Seminar in Secondary Education. Students cannot take additional coursework besides these two courses during the term in which they student teach.

**TEP Completion and Certification Requirements**

A student who satisfies TEP admission and retention requirements and who meets the following completion requirements will be recommended for "Class B" teacher certification. Students must apply for certification. Certification application packets are available on the School of Education-Office of Student Services website www.uab.edu/soeststudentservices, and should be completed and returned to the Office of Student Services, Suite 232, Education Building during the semester of program completion.

1. Students must have a minimum 2.50 higher education GPA, 2.50 teaching field GPA, and 2.50 professional studies GPA with no grade below "C" in professional studies courses.
2. Students must complete all courses on the Alabama State Board of Education approved checklist for the teaching field(s) in which certification is sought.
3. Students must demonstrate readiness to teach through on-the-job performance as a student teacher. This evaluation is conducted by the School of Education faculty and appropriate personnel from local school systems.
4. Students must successfully complete a professional portfolio documenting readiness to teach before being recommended for certification.
5. Students must document a passing score on the Alabama Educator Certification Testing Program (AECTP) and all appropriate Praxis II Exams. Official score reports must be sent to both UAB and the Alabama State Department of Education.
6. The Alabama State Department of Education has additional requirements for teacher certification. Included in these are fees associated with obtaining a certificate which are set by legislative action and may be changed. Students seeking initial certification are required to obtain background clearance to determine any criminal history through a fingerprint review conducted by the Alabama Bureau of Investigation (ABI) and the Federal Bureau of Investigation (FBI) prior to the issuance of a teaching certificate. A current application and fee payment for official transcripts are also required. Information on these requirements is available in the Office of Student Services, Suite 232, Education Building, and is included in the certification application packet.

**Teacher Certification for Students who Hold a Baccalaureate Degree**

There are several routes to teacher certification in the state of Alabama for those who already hold a baccalaureate degree. One option is to return to school to complete the current undergraduate coursework required for teacher certification. In general, individuals exercising this option are required to meet the same requirements for admission to, retention in, and exit from the Teacher Education Program as indicated above. Additionally, these students are required to have a program plan approved by the department chair before enrolling in any courses. A second option is to pursue the Alternative Master's Program. Completion of this program and all its requirements leads to a master's degree in education and Alabama "Class A" teacher certification.

Additional information on these and other options may be found on the Alabama State Department of Education's web site (www.alsde.edu) or by contacting The Office of Student Services.

**UABTeach**

http://www.uab.edu/uabteach/

**Program Co-Directors**

John C. Mayer  
UAB College of Arts and Sciences / Department of Mathematics  
(205) 934-2154  
jmayer@uab.edu

Lee Meadows  
UAB School of Education / Department of Curriculum and Instruction  
(205) 934-8371  
lmeadows@uab.edu

UABTeach (https://www.uab.edu/uabteach) is the program for all students seeking certification to teach secondary school (grades 6-12) in the sciences and mathematics, and in middle school mathematics (grades 4-8), with an undergraduate degree. It is a cooperative program among the College of Arts and Sciences (CAS), the School of Education, and the School of Engineering. To obtain teaching certification in Chemistry, Biology, Physics, General Science, or Mathematics, students major in their STEM field (Science, Technology, Engineering, and Mathematics) and participate in the UABTeach program. UABTeach is not a major, but rather leads to a minor in STEM Education (through the School of Education) and a Class B teaching certificate. Students considering seeking teaching certification in a STEM field should contact both their STEM advisor and the UABTeach advisor (HHB 210, 205-975-7424, UABTeach (https://www.uab.edu/uabteach)).

UABTeach consists of a sequence of eight courses (24 credit hours), ideally taken over eight semesters as outlined below. Courses with an EHS prefix are normally taken in sequence. However, there are pathways for students entering UABTeach after the first semester of their freshman year, and up until the first semester of their junior year, described in detail on the UABTeach website, which allow some overlap of courses.
Normally, students can complete the UABTeach courses without adding any additional time to their degree, provided they are on schedule in their STEM major, and have not already begun their junior year. Currently, UABTeach courses are offered only in Fall and Spring semesters.

- Semester 1: Step 1, Inquiry Approaches to Teaching (EHS 125, 1 hour; also counts as First Year Experience course in CAS)
- Semester 2: Step 2, Inquiry-Based Lesson Design (EHS 126, 1 hour)
- Semester 3: Knowing and Learning in Mathematics and Science (EHS 325, 3 hours)
- Semester 4: Perspectives on Science and Mathematics (HY 275) or Science, Knowledge, and Reality (PHL 270, 3 hours)
- Semester 5: Classroom Interactions (EHS 326, 3 hours)
- Semester 6: Research Methods* (number varies with STEM department, 3 hours) OR Functions and Modeling** (MA 361, 3 hours)
- Semester 7: Project-Based Instruction (EHS 327, 3 hours)
- Semester 8: Apprentice Teaching (EHS 425 and EHS 426, 7 hours)

* The Research Methods course is required for all UABTeach students earning science certification, and it is recommended for future math teachers.
** Functions and Modeling is required for all UABTeach students earning mathematics certification, and it is recommended for future science teachers.

The following table lists the currently available certifications, and the majors leading to them, under UABTeach:

<table>
<thead>
<tr>
<th>Class B Certification</th>
<th>Grade Level</th>
<th>Applicable Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>6-12</td>
<td>Biology, Biomedical Engineering, Biomedical Sciences</td>
</tr>
<tr>
<td>Chemistry</td>
<td>6-12</td>
<td>Chemistry, Chemistry-Chemical Education Track</td>
</tr>
<tr>
<td>General Science</td>
<td>6-12</td>
<td>Biophysics, Materials Engineering, Mechanical Engineering, Neuroscience</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6-12</td>
<td>Mathematics, Civil Engineering, Electrical Engineering</td>
</tr>
<tr>
<td>Mathematics, Middle School</td>
<td>4-8</td>
<td>Mathematics-Mathematical Reasoning Track</td>
</tr>
<tr>
<td>Physics</td>
<td>6-12</td>
<td>Physics</td>
</tr>
</tbody>
</table>

Students can begin the program in either fall or spring semesters. For more information, please visit the UABTeach website: http://www.uab.edu/uabteach/

**Minor in STEM (Science, Technology, Engineering, and Math) Education**

The STEM Education Minor includes the same courses UABTeach (https://www.uab.edu/uabteach) students take to earn Alabama teacher certification. So UABTeach (https://www.uab.edu/uabteach) students can add a minor with no additional coursework and have an element of their academic transcript reflect the work they have done to prepare themselves for teaching. The STEM Education Minor also includes an elective pathway designed to allow UABTeach (https://www.uab.edu/uabteach) students who elect not to complete Apprentice Teaching (EHS 425) and their certification requirements to add education electives to bring their minor coursework up to the required minimum of 18 hours.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 125</td>
<td>Inquiry Approaches to Teaching</td>
</tr>
<tr>
<td>EHS 126</td>
<td>Step 2: Inquiry Based Lesson Design</td>
</tr>
<tr>
<td>EHS 325</td>
<td>Knowing and Learning in Mathematics and Science</td>
</tr>
<tr>
<td>EHS 326</td>
<td>Classroom Interactions</td>
</tr>
<tr>
<td>EHS 327</td>
<td>Project-Based Instruction</td>
</tr>
</tbody>
</table>

**Approved Elective Courses**

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 270</td>
<td>Science, Knowledge, and Reality</td>
</tr>
<tr>
<td>HY 275</td>
<td>Perspectives on Science &amp; Mathematics</td>
</tr>
<tr>
<td>EHS 425 &amp; EHS 426</td>
<td>Apprentice Teaching &amp; Apprentice Teaching Seminar</td>
</tr>
<tr>
<td>MA 361</td>
<td>Mathematical Modeling</td>
</tr>
<tr>
<td>Research Methods</td>
<td></td>
</tr>
<tr>
<td>Education Elective course approved by UABTeach academic advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**: 18

1. The elective course structure is designed to allow UABTeach students who elect not to complete certification to earn a minor without enrolling in Apprentice Teaching, which is the student teaching option in UABTeach
2. Course may not be used as a minor elective if also counted toward the students’ major
3. e.g. BY 492, CH 492, PH 494. Course may not be used as a minor elective if also counted toward the students’ major.

**Department of Curriculum and Instruction**

**Chair**: Lynn Kirkland, Ed.D

The Department of Curriculum and Instruction offers undergraduate programs leading to a B.S. degree and Alabama “Class B” certification in early childhood/elementary education (grades P-6) and secondary education (grades 6-12). Teacher education programs are offered in conjunction with the College of Arts and Sciences in the following areas: music (choral and instrumental), science, and mathematics.

Students preparing to teach are expected to participate in a series of planned assignments in community and/or school settings both before and after admission to the Teacher Education Program. These opportunities to work with children and youth are designed to enhance the students’ professional development and to supplement their campus coursework.
Early Childhood Education (Non-Certification Program) (p. 270)

Early Childhood & Elementary Education (Teacher Certification Program) (p. 270)

Early Childhood Education - Non-Certification Program

The early childhood education non-certification program is designed to prepare students to work in a variety of early care and educational settings serving children ages birth to five. Career options include but are not limited to childcare administration, childcare resource and referral, and teaching in preschool and Head Start classrooms. Students successfully completing the program will receive a baccalaureate degree in early childhood education. In addition to studying general child development content, students will learn the basics of planning, implementing, and evaluating early childhood programs. Professional preparation includes courses in child development, curriculum, instructional strategies, assessment, and technology. The program includes extensive field experiences in infant, toddler, and preschool classrooms.

There are two pathways to earning an early childhood non-certification bachelor’s degree. One option, the 2+2 option, is designed for students who complete an Associate degree in child development at an Alabama community college. These students transfer to UAB and complete the second half of the early childhood education non-certification bachelor’s degree program. Option two is for students who begin their post-secondary education at a four-year institution.

Core Curriculum for Early Childhood Education (Non-Certification Program) ¹

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

¹ Core Curriculum Area IV: PY 101 Introduction to Psychology & SOC 100 Introduction to Sociology preferred.

Requirements

Hours

Early Childhood Courses (Non-Certification) (Common to all in Major)

ECP 300 Survey of Special Education 3
EEC 300 Child Development/Family Relationships 3
EEC 405 Children’s Literature in Early Childhood and Elementary Education 3
ECE 415 Learning Environments 3
EPR 363 Foundations of Education II: Psychological 3
EDF 362 Foundations of Education I: Social, Historical, Philosophical 3
HPE 301 Teaching Health Education and Physical Education in Elementary Schools 3

Early Childhood Non-Certification Concentration (Track)

ECE 320 Introduction to Curriculum and Teaching 3
ECE 347 Language Experiences for the Young Child 3
ECE 390 Practicum in Early Childhood Education 3
ECE 410 Organize Programs: Young Children 3
ECE 445 Young Children: Math/Science/Social Studies 6
ECE 446 Communication Arts/Reading: Young Child 6
ECE 448 Infant/Toddler Development 3

ECE 449 Education Environment: Infant/Parent 3
ECE 460 Current Topics in Early Childhood Education Assessment 3
ECE 490 Student Teaching in Early Childhood Education I 9
ECE 492 Home Visitation Curriculum Projects 3
ECE 494 Field Work in Early Childhood Education 4
EEC 302 Expressive Arts (P-6) (or ECE) 3
KIN 305 Motor Development 3

Total Hours 76

Early Childhood and Elementary Education (Teacher Certification Program)

The early childhood/elementary education program is designed as a double major program. Students successfully completing the program and all requirements outlined below will receive a baccalaureate degree and be eligible for Alabama “Class B” professional teaching certificates in early childhood education (grades P-3) and elementary education (grades K-6).

Professional preparation includes courses in humanistic and behavioral studies, early childhood education, elementary education, curriculum and teaching, evaluation of teaching and learning, extensive pre-internship field experiences in P-6 settings, and an internship. Students must work closely with their faculty advisor for appropriate selection of courses in each area of general and professional studies.

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

Lower Division Requirements for Early Childhood & Elementary Education (Teacher Certification Program)

Requirements

Hours

Additional Laboratory Science ¹

Select one of the following: 4

AST 101 Astronomy of the Universe
& AST 111 and Astronomy of the Universe Laboratory
AST 102 Astronomy of Stellar Systems
& AST 112 and Astronomy of Stellar Systems Laboratory
AST 103 Astronomy of the Solar System
& AST 113 and Astronomy of the Solar Systems Laboratory
AST 105 Extraterrestrial Life
& AST 115 and Extraterrestrial Life Laboratory
BY 101 Topics in Contemporary Biology
& BY 102 and Topics Contemporary Biology Laboratory
BY 111 Extended Topics in Contemporary Biology
& BY 112 and Ext Topics Contemporary Biology Laboratory
BY 123 Introductory Biology I
BY 124 Introductory Biology II
CH 105 Introductory Chemistry I
& CH 106 and Introductory Chemistry I Laboratory
CH 107 Introductory Chemistry II
& CH 108 and Introductory Chemistry II Laboratory
CH 115 General Chemistry I
& CH 116 and General Chemistry I Laboratory
CH 117 General Chemistry II
& CH 118 and General Chemistry II Laboratory
ENV 108 Human Population and the Earth’s Environment
& ENV 109 and Laboratory in Environmental Science
## Major Requirements for Early Childhood Education & Elementary Education (Teacher Certification Program)

**Requirements** | **Hours**
--- | ---
**Foundations & Professional Studies** | 1
EDU 200 | 3
HPE 200 | 2
EGY 300 | 3
EDF 362 | 3
EPR 363 | 3
ECC 300 | 3
ECC 301 | 3
ECC 440 | 3
**Teaching Field Courses** | 3
ECC 302 | 1
ECC 402 | 3
ECC 405 | 3
ECC 406 | 3
ECC 412 | 3
ECC 413 | 3
ECC 414 | 3
ECC 415 | 3
HPE 301 | 3
**Math Requirements**
MA 313 | 3
Select one 100 Level or higher math course not used above | 3
Select two additional math courses at 100-level or higher (MA 314 and MA 316 preferred) | 6
**Psychology**
PY 101 | 3
**Total Hours** | 19

1. Students may NOT use the same course to satisfy this requirement and the Core Curriculum Area III: Science requirement.
2. This course will apply toward this requirement as well as Core Curriculum Area IV.

### Middle School Education

A program in middle grades mathematics (grades 4-8) is offered in conjunction with the College of Arts and Sciences. Students following this program must meet TEP entrance, retention, and completion requirements as outlined in previous sections in order to be recommended for Alabama teacher certification. Students seeking certification in middle grades mathematics should complete the Mathematical Reasoning track of the Mathematics major within the Department of Mathematics (See Catalog). For education course requirements, contact the Office of Student Services (934-7530), within the School of Education, for the current checklist. This program is a part of the **UABTeach Program**. For more information on UABTeach contact Dr. Lee Meadows (%20lmeadows@uab.edu), (205) 975-7424, or visit the website at www.uab.edu/uabteach.

### High School Education

Secondary education has programs leading to teacher certification in biology, chemistry, physics, general science, English language arts,
general social science, mathematics, and music education as described below.

**High School Education- English Language Arts and General Social Science**

Secondary education offers a major in secondary education and certification for grades 6-12 in English language arts (ELA) and in general social science (GSS). Candidates obtaining certification in these two teaching fields must either have an academic major (in English for ELA or in history for GSS) or meet the highly qualified condition specified by the Alabama State Department of Education (ALSDE). Because of teacher certification requirements, content coursework may slightly differ from those courses required of traditional English or history majors. Thus, candidates should follow the appropriate program checklist assigned by the Office of Student Services within the School of Education to ensure that they meet certification requirements. Although an academic major in English or history may be built into the certification checklists, candidates should seek advising for these content majors from College of Arts and Science (CAS) advisors to insure they meet all current degree requirements for either English or history. Students who complete requirements for both an academic major and an education major will receive a single degree with both majors listed.

Due to ALSDE regulations for teachers, Core Curriculum requirements for education majors are more specific than Core Curriculum requirements for academic majors. Students should seek advising and obtain a program checklist from the Office of Student Services, Education Building, Suite #232, Phone: (205) 934-7530. Students should also consult with their education advisor once per term and also with a content advisor in CAS to insure they stay on track for all requirements.

**High School Education – All Areas of Science and Mathematics**

Programs leading to grades (6-12) certification in biology, chemistry, physics, general science, and mathematics are offered in conjunction with the College of Arts and Sciences and the School of Engineering as part of the UABTeach (https://www.uab.edu/uabteach) program. The UABTeach (https://www.uab.edu/uabteach) program is an innovative program modeled after the national UTeach program developed at the University of Texas at Austin. The aim of this program is to produce well prepared teachers of mathematics and the sciences within a 4-year period and to increase the number of teachers in the STEM (science, technology, engineering, and math) disciplines. The UABTeach (https://www.uab.edu/uabteach) program requires a major in an academic field such as biology, chemistry, engineering, mathematics, etc. The program requires several innovative and intensive education courses aimed at preparing teachers for grades 6-12 and leading to Class B teacher certification. The academic majors are housed within the appropriate departments within the College of Arts and Sciences and the School of Engineering. Students should contact their CAS or Engineering advisors for advising on their major. Information on the Education components of the program can be found by contacting the Office of Student Services, Education Building, Suite #232, Phone: (205) 934-7530. For more information contact Dr. Lee Meadows (%20lmeadows@uab.edu), (205) 975-7424, or visit the website at www.uab.edu/uabteach.

**Arts Education with a Concentration in Music (Instrumental and Vocal/Vocal/Choral)**

Programs leading to grades (P-12) certification in music (instrumental and vocal/choral) are offered in conjunction with the Department of Music within the College of Arts and Sciences. Candidates obtain a major in music and should seek advising on music courses from their music/CAS advisors. Candidates also complete a series of education courses leading to teacher certification and should seek advising related to teacher certification from the Office of Student Services, Education Building, Suite #232, Phone: (205) 934-7530. Candidates must meet all requirements for admission to the Teacher Education Program (TEP) and complete all requirements (such as state mandated tests) leading to teacher certification. Students should consult with their education advisor once per term and also with a content advisor in CAS to insure they stay on track for all requirements.

**High School Education/English Language Arts**

This curriculum results in a major in secondary education with teacher certification in English language arts.

**Core Curriculum for High School Education/English Language Arts**

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

**Lower Division Requirements for High School Education/English**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Psychology 1</td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>3</td>
</tr>
<tr>
<td>Mass Communication</td>
<td></td>
</tr>
<tr>
<td>CMST 103</td>
<td>3</td>
</tr>
<tr>
<td>CMST 210</td>
<td>3</td>
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<td><strong>Total Hours</strong></td>
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1 If not taken in Core Curriculum Area IV

**Major Requirements for High School Education**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations &amp; Professional Studies</td>
<td></td>
</tr>
<tr>
<td>EDU 200</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200</td>
<td>2</td>
</tr>
<tr>
<td>ECY 300</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363</td>
<td>3</td>
</tr>
<tr>
<td>EHS 401</td>
<td>3</td>
</tr>
<tr>
<td><strong>High-School Education Courses (These courses require admission to TEP)</strong></td>
<td></td>
</tr>
<tr>
<td>EHS 456</td>
<td>3</td>
</tr>
<tr>
<td>EHS 466</td>
<td>3</td>
</tr>
<tr>
<td>EHS 497</td>
<td>3</td>
</tr>
<tr>
<td>EPR 411</td>
<td>3</td>
</tr>
<tr>
<td>EDR 442</td>
<td>3</td>
</tr>
<tr>
<td><strong>Internship</strong></td>
<td></td>
</tr>
<tr>
<td>EHS 489</td>
<td>3</td>
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</tbody>
</table>

272 Department of Curriculum and Instruction
The University of Alabama at Birmingham

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 490</td>
<td>Secondary School Student Teaching I</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours**: 41

**Major Requirements for English**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 301 Reading, Writing, and Research for English Majors</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 217</td>
<td>World Literature I: Before 1660</td>
<td></td>
</tr>
<tr>
<td>EH 218</td>
<td>World Literature II: 1660-Present</td>
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</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 223</td>
<td>American Literature I: Before 1865</td>
<td></td>
</tr>
<tr>
<td>EH 224</td>
<td>American Literature II: 1865-Present</td>
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</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 405</td>
<td>Poetry Writing Workshop (Seminar)</td>
<td></td>
</tr>
<tr>
<td>EH 406</td>
<td>Poetry Writing Workshop (Seminar)</td>
<td></td>
</tr>
<tr>
<td>EH 410</td>
<td>Fiction Writing Workshop (Seminar)</td>
<td></td>
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**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 401</td>
<td>Tutoring Writing</td>
<td></td>
</tr>
<tr>
<td>EH 402</td>
<td>Writing in Popular Periodicals</td>
<td></td>
</tr>
<tr>
<td>EH 409</td>
<td>Fiction Writing Workshop (Seminar)</td>
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</tr>
</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>EH 403</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>EH 404</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>EH 457</td>
<td>Writing and Medicine</td>
<td></td>
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</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EH 430</td>
<td>Professional Writing: Special Topics</td>
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</tr>
<tr>
<td>EH 433</td>
<td>Academic Writing</td>
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</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 419</td>
<td>Young Adult Literature</td>
<td></td>
</tr>
<tr>
<td>EDR 441</td>
<td>Literature for Adolescents</td>
<td></td>
</tr>
</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 476</td>
<td>Shakespeare</td>
<td></td>
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</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 469</td>
<td>Medieval Culture: Literature and Society</td>
<td></td>
</tr>
<tr>
<td>EH 470</td>
<td>Arthurian Legend</td>
<td></td>
</tr>
<tr>
<td>EH 471</td>
<td>Beowulf in Context</td>
<td></td>
</tr>
<tr>
<td>EH 473</td>
<td>Chaucer: Pilgrimage to Canterbury</td>
<td></td>
</tr>
<tr>
<td>EH 474</td>
<td>English Renaissance Drama (Excluding Shakespeare)</td>
<td></td>
</tr>
<tr>
<td>EH 475</td>
<td>English Renaissance Poetry and Prose</td>
<td></td>
</tr>
<tr>
<td>EH 478</td>
<td>Milton</td>
<td></td>
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</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EH 480</td>
<td>The Restoration</td>
<td></td>
</tr>
<tr>
<td>EH 481</td>
<td>The Eighteenth Century: Literature and Culture</td>
<td></td>
</tr>
<tr>
<td>EH 482</td>
<td>The Eighteenth Century: Theory and Interpretation</td>
<td></td>
</tr>
<tr>
<td>EH 483</td>
<td>British Romanticism</td>
<td></td>
</tr>
<tr>
<td>EH 485</td>
<td>British Victorian Poetry</td>
<td></td>
</tr>
<tr>
<td>EH 486</td>
<td>Eighteenth-Century British Novel</td>
<td></td>
</tr>
<tr>
<td>EH 487</td>
<td>Nineteenth-Century British Novel</td>
<td></td>
</tr>
<tr>
<td>EH 414</td>
<td>Modern British and European Drama</td>
<td></td>
</tr>
<tr>
<td>EH 488</td>
<td>British Novel: The Modern Age</td>
<td></td>
</tr>
<tr>
<td>EH 489</td>
<td>James Joyce</td>
<td></td>
</tr>
</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 460</td>
<td>American Women Writers Before 1900</td>
<td></td>
</tr>
<tr>
<td>EH 461</td>
<td>American Literature, 1620 - 1820</td>
<td></td>
</tr>
</tbody>
</table>

**EH 462** American Literature, 1820 - 1870
**EH 463** American Literature, 1870 - 1914
**EH 416** Modern American Poetry
**EH 442** Literary Theory and Criticism, the Twentieth Century to the Present
**EH 444** Women's Literature and Theory
**EH 464** American Literature, 1914 - 1945
**EH 465** American Literature, 1945-Present

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
<td></td>
</tr>
<tr>
<td>EH 488</td>
<td>The Harlem Renaissance</td>
<td></td>
</tr>
<tr>
<td>EH 365</td>
<td>African American Literature, 1746-1954</td>
<td></td>
</tr>
<tr>
<td>EH 366</td>
<td>African American Literature, 1954-Present</td>
<td></td>
</tr>
<tr>
<td>EH 420</td>
<td>World Literature</td>
<td></td>
</tr>
<tr>
<td>EH 421</td>
<td>World Literature</td>
<td></td>
</tr>
<tr>
<td>EH 422</td>
<td>African Literature</td>
<td></td>
</tr>
<tr>
<td>EH 423</td>
<td>African Women's Literature</td>
<td></td>
</tr>
<tr>
<td>EH 424</td>
<td>African-American Special Topics</td>
<td></td>
</tr>
<tr>
<td>EH 445</td>
<td>Special Topics in African American Literature</td>
<td></td>
</tr>
<tr>
<td>EH 447</td>
<td>African American Dramatic Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 448</td>
<td>African American Poetry Tradition</td>
<td></td>
</tr>
<tr>
<td>EH 466</td>
<td>The Slave Narrative and Its Literary Expressions</td>
<td></td>
</tr>
<tr>
<td>EH 467</td>
<td>Black Women Writers</td>
<td></td>
</tr>
<tr>
<td>EH 468</td>
<td>The Harlem Renaissance</td>
<td></td>
</tr>
</tbody>
</table>

**Select one of the following**: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 350</td>
<td>Introduction to Linguistics</td>
<td></td>
</tr>
<tr>
<td>EH 351</td>
<td>Structure of English</td>
<td></td>
</tr>
<tr>
<td>EH 452</td>
<td>Grammar and Usage for English Teachers</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**: 36

**High School Education/General Social Science**

This curriculum results in a major in secondary education, with teacher certification in general social science. A history major may also be obtained by completing requirements specific to that major.

**Core Curriculum for High School Education/General Social Science**

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

**Lower Division Requirements for High School Education/General Social Science Major**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Social &amp; Behavioral Science</td>
<td></td>
</tr>
<tr>
<td>PSC 101 Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSC 221 American State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 221 Geography of North America</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 12

**Upper Division Requirements for High School Education/General Social Science Major**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td></td>
</tr>
</tbody>
</table>
**Major Requirements for High School Education**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations &amp; Professional Studies</strong></td>
<td></td>
</tr>
<tr>
<td>EDU 200  Education as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200  Quality of Life</td>
<td>2</td>
</tr>
<tr>
<td>EGY 300  Survey of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362  Foundations of Education I: Social, Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363  Foundations of Education II: Psychological</td>
<td>3</td>
</tr>
<tr>
<td>EHS 401  Secondary Education Curriculum and Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**Secondary Education Courses (These courses require admission to TEP)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 456</td>
<td>Classroom Management in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EHS 468</td>
<td>Secondary Social Science Methods</td>
<td>3</td>
</tr>
<tr>
<td>EHS 497</td>
<td>Special Problems in Education (Diversity)</td>
<td>3</td>
</tr>
<tr>
<td>EPR 411</td>
<td>Measurement and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDR 442</td>
<td>Reading in Content Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

**Internship**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 489</td>
<td>Internship Seminar in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>EHS 490</td>
<td>Secondary School Student Teaching I</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours**: 41

1. Required for TEP Admission

**Major Requirements in History**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 101</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HY 102</td>
<td>Western Civilization II</td>
</tr>
<tr>
<td>HY 120</td>
<td>The United States To 1877</td>
</tr>
<tr>
<td>HY 121</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>HY 225</td>
<td>History of Alabama</td>
</tr>
<tr>
<td>HY 300</td>
<td>The Historian’s Craft</td>
</tr>
</tbody>
</table>

**Total Hours**: 18

For other history courses see the current checklist in the Offices of Student Services within the School of Education. See the requirements for a history major within the catalog listings for the College of Arts and Sciences. You should confer with advisors in Education and CAS about specific history requirements. Students seeking teacher certification may have more specific requirements than non-certification students.

**Proposed Program of Study in Early Childhood and Elementary Education**

**Freshman**

<table>
<thead>
<tr>
<th>Term</th>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDU 100</td>
<td></td>
<td>2-3 CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td></td>
<td>3 Core Curriculum Area</td>
<td>4</td>
</tr>
<tr>
<td>BY 101</td>
<td></td>
<td>4 Core Curriculum Area IV:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>History</td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area II: Fine Art</td>
<td></td>
<td>3 EH 102</td>
<td>3</td>
</tr>
</tbody>
</table>

Meadows (%20lmeadows@uab.edu), (205) 975-7424, or visit the website at www.uab.edu/uabteach, for guidance in selecting a certification area.

**Core Curriculum Mathematics, Biology, Chemistry, General Science, Physics**

Students should follow the core curriculum for their STEM major. See the catalog for majors in CAS and Engineering and speak with an advisor in these programs.

**Major Requirements Mathematics, Biology, Chemistry, General Science, Physics**

Students should follow the curriculum prescribed for their STEM major. See the catalog for majors in CAS and Engineering and speak with an advisor in these programs.

**Requirements in Education and the UABTeach (https://www.uab.edu/uabteach) Program Leading to Teacher Certification**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 275</td>
<td>Perspectives on Science &amp; Mathematics</td>
</tr>
<tr>
<td>BY 492</td>
<td>Biology Capstone - Undergraduate Research 1</td>
</tr>
<tr>
<td>or CH 492</td>
<td>Research Methods</td>
</tr>
<tr>
<td>or PH 494</td>
<td>Research Methods in Physics</td>
</tr>
<tr>
<td>MA 361</td>
<td>Mathematical Modeling 2</td>
</tr>
</tbody>
</table>

**Total Hours**: 28

1. Required for students getting certified in an area of Science. May be used as an elective for those seeking certification in Mathematics.

2. Required for students getting certified in Mathematics. May be used as an elective for those seeking certification in an area of Science.
### The University of Alabama at Birmingham

**MA 110 (or Core Curriculum Area III: Mathematics)**
- 3 HPE 200
- 2 MA 314 or 316

**Sophomore**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3 EEC 300</td>
<td>3 EEC 301</td>
<td>3</td>
</tr>
<tr>
<td>ECY 300</td>
<td>3 EEC 301</td>
<td>3 EPR 363</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>3 EEC 400</td>
<td>3 EEC 405</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Area II: Literature</td>
<td>3 Core Curriculum Area II: Humanities and Fine Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Curriculum Area IV: History</td>
<td>3 Additional Natural Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDF 362</td>
<td>3 MA 313</td>
<td></td>
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</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3 EEC 300</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362</td>
<td>3 EEC 400</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363</td>
<td>3 EHS 497</td>
<td>3</td>
</tr>
<tr>
<td>PSC 221</td>
<td>3 EHS 456</td>
<td>3</td>
</tr>
<tr>
<td>EHS 401</td>
<td>3 EC 440</td>
<td>3</td>
</tr>
<tr>
<td>History Electives (300-400 Level)</td>
<td>6 GEO 221</td>
<td></td>
</tr>
<tr>
<td>ECY 300</td>
<td>3 History Electives (300-400 Level)</td>
<td></td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3 EEC 400</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362</td>
<td>3 EEC 405</td>
<td>3</td>
</tr>
<tr>
<td>EPR 363</td>
<td>3 EHS 489</td>
<td>3</td>
</tr>
<tr>
<td>PSC 221</td>
<td>3 EHS 490</td>
<td>6</td>
</tr>
<tr>
<td>EDR 442</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>History Electives (400-Level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HY 497</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credit hours: 130**

1 Non-Western History Select One: HY 271, HY 476 or HY 477.

### Minor in Education

**Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>3</td>
</tr>
<tr>
<td>EDT 300</td>
<td>3</td>
</tr>
<tr>
<td>EDF 362</td>
<td>3</td>
</tr>
<tr>
<td>EDF 363</td>
<td>3</td>
</tr>
<tr>
<td>Choose two of the courses below:</td>
<td>6</td>
</tr>
<tr>
<td>EHS 497</td>
<td>Special Problems in Education</td>
</tr>
<tr>
<td>EEC 302</td>
<td>Expressive Arts (P-6)</td>
</tr>
<tr>
<td>EEC 440</td>
<td>Workshop in Education</td>
</tr>
<tr>
<td>EDU 300</td>
<td>Special Topics in Education</td>
</tr>
<tr>
<td>EPR 214</td>
<td>Introduction to Educational Statistics</td>
</tr>
<tr>
<td>EPR 414</td>
<td>Lifespan Human Development</td>
</tr>
<tr>
<td>CHHS 342</td>
<td>Introduction to Health Education/Promotion</td>
</tr>
<tr>
<td>CHHS 402</td>
<td>Mental Health and Stress Management</td>
</tr>
<tr>
<td>CHHS 404</td>
<td>Global Trends in Health Education/Promotion</td>
</tr>
<tr>
<td>CHHS 408</td>
<td>Drug Abuse Prevention and Education</td>
</tr>
<tr>
<td>KIN 305</td>
<td>Motor Development</td>
</tr>
<tr>
<td>KIN 407</td>
<td>Coaching Young Athletes</td>
</tr>
<tr>
<td>EMS 330</td>
<td>Introduction to Middle/Junior High Teaching</td>
</tr>
<tr>
<td>EMS 352</td>
<td>Teaching Mathematics in Middle/Junior High School</td>
</tr>
</tbody>
</table>

**Total Hours**

### Minor in STEM (Science, Technology, Engineering, and Math) Education

The STEM Education Minor includes the same courses UABTeach (https://www.uab.edu/uabteach) students take to earn Alabama teacher
certification. So UABTeach (https://www.uab.edu/uabteach) students can add a minor with no additional coursework and have an element of their academic transcript reflect the work they have done to prepare themselves for teaching. The STEM Education Minor also includes an elective pathway designed to allow UABTeach (https://www.uab.edu/uabteach) students who elect not to complete Apprentice Teaching (EHS 425) and their certification requirements to add education electives to bring their minor coursework up to the required minimum of 18 hours.

Department of Human Studies

Chair: Kristi Menear

The Department of Human Studies offers undergraduate majors in both Community Health and Human Services and Kinesiology. Community Health and Human Services majors choose between two concentrations: Community Health (non-teaching) or Human Services (non-teaching). Community Health and Human Services also offers a minor in Community Health and a Minor in Human Services. Kinesiology majors choose among three concentrations: Physical Education Teacher Certification (grades P-12), Fitness Leadership (non-teaching), or Exercise Science (non-teaching). Kinesiology also offers a minor in Athletic Coaching and a minor in Exercise Science. Programs leading to degrees and/or certificates in Counseling and Educational Leadership are offered at the graduate level.

Students should contact the Office of Student Services, Suite 232, Education Building, (205) 934-7530, early in their studies to obtain the name of their advisor and pertinent program information related to the Core Curriculum. Students should consult their advisor prior to each registration period for the appropriate guidance (e.g., students are expected to take courses in the appropriate sequence, including prerequisites).

The Department of Human Studies offers an Honors Program for Exercise Science and Fitness Leadership students. Highly qualified students will have the opportunity to work one-on-one with a mentor in an area of mutual interest and conduct either a research or civic engagement project designed to meet some particular need as it relates to pertinent areas of fitness, exercise, and physical activity. For more information go to: http://www.uab.edu/education/student-services/current-students/get-involved/honors-program.

Major in Community Health and Human Services with a Community Health Concentration

A grade of "C" or better is required in all majors courses.

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

Lower Division Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Community Health and Human Services</td>
<td></td>
</tr>
<tr>
<td>CHHS 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 141 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>EPR 214 Introduction to Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td></td>
</tr>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>20</td>
</tr>
</tbody>
</table>

Major Requirements for Community Health and Human Services: Community Health Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education Courses</td>
<td></td>
</tr>
<tr>
<td>EPR 414 Lifespan Human Development</td>
<td>3</td>
</tr>
<tr>
<td>Community Health and Human Services Courses</td>
<td></td>
</tr>
<tr>
<td>CHHS 223 Introduction to Disease Prevention in Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 342 Introduction to Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 343 Behavioral Theory in Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 421 Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 432 Planning and Implementing Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 432 Administration of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 452 Evaluation and Grantsmanship</td>
<td>3</td>
</tr>
<tr>
<td>Community Health and Human Services Electives</td>
<td></td>
</tr>
<tr>
<td>Select three of the following courses:</td>
<td>9</td>
</tr>
<tr>
<td>CHHS 402 Mental Health and Stress Management</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 404 Global Trends in Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 408 Drug Abuse Prevention and Education</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 423 Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 489 Intervention Strategies for Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 490 Special Projects in Health Education</td>
<td>1-6</td>
</tr>
<tr>
<td>CHHS 491 Problems in Health Education</td>
<td>1-6</td>
</tr>
<tr>
<td>CHHS 498 Lifespan Dimensions in Women's Health and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Internship</td>
<td></td>
</tr>
</tbody>
</table>
### Major in Community Health and Human Services with a Human Services Concentration

A grade of "C" or better is required in all majors courses.

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

#### Lower Division Requirements

**Requirements** | **Hours**
--- | ---
CHHS 140 | First Aid 3
CHHS 141 | Personal Health 3
PSC 221 | American State and Local Government 3
EPR 214 | Introduction to Educational Statistics 3
NTR 222 | Nutrition and Health 3
PY 212 | Developmental Psychology 3
**Total Hours** | **18**

#### Major Requirements for Community Health and Human Services Major with a Human Services Concentration

**Requirements** | **Hours**
--- | ---
AC 200 | Principles of Accounting I 3
CHHS 223 | Introduction to Disease Prevention in Health Education/Promotion 3
PSC 222 | Introduction to Public Administration 3
CHHS 342 | Introduction to Health Education/Promotion 3
CHHS 343 | Behavioral Theory in Health Education/Promotion 3
CHHS 350 | Introduction to Human Services 3
MG 302 | Management Processes and Behavior 3
CHHS 402 | Mental Health and Stress Management 3
CHHS 415 | Case Management in Human Services 3
CHHS 420 | Helping Skills in Human Services 3
CHHS 425 | Community Resources/Identification/Mobilization in Human Services 3
CHHS 431 | Planning and Implementing Health Education/Promotion Programs 3
CHHS 452 | Evaluation and Grantsmanship 3
CHHS 455 | Fund Raising in Human Services 3
CHHS 461 | Leadership in Non-Profit Administration 3
CHHS 499 | Community Health & Human Services Internship 6
EPR 414 | Lifespan Human Development 3

**Total Hours** | **72**

---

### Kinesiology Programs

Students majoring in Kinesiology may choose from three concentrations: teacher certification, exercise science, and fitness leadership. The teacher certification program prepares students for entry into teaching positions in grades P-12. The exercise science program prepares students for graduate work in exercise physiology or health related careers such as physical therapy and occupational therapy. The fitness leadership program prepares students to be fitness leaders in fitness centers, clinics, or industrial settings.

#### Kinesiology Major: Teacher Certification

A grade of "C" or better is required in all math, science, and major courses.

**Core Curriculum for Kinesiology Major: Teacher Certification.**

EH 101/102 requires one grade of at least a "B" or higher and one grade of "C" or higher for teacher certification.

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

#### Lower Division Requirements

**Kinesiology with a Teacher Certification Concentration**

**Requirements** | **Hours**
--- | ---
Biology | 
BY 115 | Human Anatomy 4
BY 116 | Introductory Human Physiology 4
First Aid | 
CHHS 140 | First Aid 3

**Educational Statistics**

EPR 214 | Introduction to Educational Statistics 3

**Health**

HPE 200 | Quality of Life 2

**Total Hours** | **16**

1 See program policy for waiver.

#### Major Requirements for Kinesiology with a Teacher Certification Concentration

**Requirements** | **Hours**
--- | ---
Foundations and Professional Studies | 
EDU 200 | Education as a Profession 3
ECY 300 | Survey of Special Education 3
EDF 362 | Foundations of Education I: Social, Historical, Philosophical 3
EPR 363 | Foundations of Education II: Psychological 3

**Pre-TEP Major Requirements**

**Aquatics**

Select one of the following aquatics courses:

KIN 101 | Beginning and Advanced Beginning Swimming
KIN 102 | Intermediate Swimming/Swimmer Course
KIN 103 | Lifeguard Training

**Kinesiology Courses**
KIN 112  Dance and Gymnastics  1  
KIN 115  Weight Training  1  
KIN 117  Team Sports  1  
KIN 118  Sports Using Implements  1  
KIN 131  Aerobics  1  
KIN 132  Group Exercise Leadership  1  
KIN 136  Intro to Physical Education Fitness and Sport  3  
KIN 201  Officiating Techniques  2  
KIN 300  Organization and Administration of Physical Education  3  
KIN 305  Motor Development  3  
KIN 307  Applied Kinesiology  3  
KIN 400  Physiology of Exercise  4  
KIN 402  Basic Athletic Training  2  
KIN 407  Coaching Young Athletes  3  

Admission to TEP Required for these courses:
KIN 308  Adapted Physical Education  3  
KIN 311  Elementary School Physical Education  3  
KIN 320  Fitness/Motor Skill Acquisition  3  
KIN 320L  Sports Skill Proficiency  1  
KIN 323  Techniques Teaching LIFE Skills in Sec. Schools  3  
KIN 409  Assessment in Physical Education  3  

Internship
KIN 495  Elementary/Secondary Physical Education Student Teaching  9  

Total Hours  73  

Kinesiology Major: Exercise Science Concentration
A grade of C or better is required in all math, science, and major courses. 
Note: UAB requires 120 total semester hours in order to graduate. 
Students with this major may need additional electives to meet this requirement.

Core Curriculum for Kinesiology Major:
Exercise Science Concentration
Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience) 

Lower Division Requirements for Kinesiology with a Concentration in Exercise Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 115  Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116  Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>First Aid</td>
<td></td>
</tr>
<tr>
<td>CHHS 140  First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Personal Health</td>
<td></td>
</tr>
<tr>
<td>CHHS 141  Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>EPR 214  Introduction to Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>If not taken in core, take the following:</td>
<td>0-11</td>
</tr>
<tr>
<td>CH 105  Introductory Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CH 106  Introductory Chemistry I Laboratory (If not taken in core curriculum)</td>
<td></td>
</tr>
</tbody>
</table>

or CH 115  General Chemistry I 
& CH 116  and General Chemistry I Laboratory  
PY 101  Introduction to Psychology (If not taken in core curriculum)  
PH 201  College Physics I (If not taken in core curriculum)  
or PH 221  General Physics I  

Total Hours  17-28  

1 See program policy for 0 credit hour waiver criteria. 

Major Requirements for Kinesiology with a Concentration in Exercise Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kinesiology</td>
<td></td>
</tr>
<tr>
<td>KIN 115  Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KIN 131  Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>KIN 136  Intro to Physical Education Fitness and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KIN 307  Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400  Physiology of Exercise</td>
<td>4</td>
</tr>
<tr>
<td>KIN 405  Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KIN 485  Exercise Testing/Prescription</td>
<td>3</td>
</tr>
</tbody>
</table>

General Electives
E elective coursework to reach the 120 hour graduation requirement (hours variable)  75  

Other Courses
Choose 9-11 Hours:  9-11  
KIN 132  Group Exercise Leadership  
KIN 305  Motor Development  
KIN 340  Planning/Management of Fitness Facilities  
KIN 402  Basic Athletic Training  
KIN 440  Principles of Conditioning the Athlete  
KIN 450  Physical Activity for Individuals with Disabilities/SL  
KIN 451  Physical Activity for Senior Adults  
KIN 460  Clinical Exercise Physiology  
KIN 470  Advanced Treatment Athletic Training  
KIN 499  Fitness Internship  
CHHS 342  Introduction to Health Education/Promotion  3  

Aquatics
Select one of the following courses:  1  
KIN 101  Beginning and Advanced Beginning Swimming  
KIN 102  Intermediate Swimming/Swimmer Course  
KIN 103  Lifeguard Training  

Major Elective Requirements
Select 14 to 17 hours of the following courses:  14-17  
AHS 350  Medical Terminology for Health Professionals  
PY 218  Abnormal Psychology  3  
or PY 330  Sport Psychology  
BY 123  Introductory Biology I  2  
BY 124  Introductory Biology II  2  
BY 210  Genetics  
BY 261  Introduction to Microbiology  
BY 271  Biology of Microorganisms  
BY 314  Embryology  
BY 327  Histology  
BY 330  Cell Biology  
BY 409  Principles of Human Physiology  

Total Hours  73  


The University of Alabama at Birmingham

BY 420 General Endocrinology
CH 115 General Chemistry I
& CH 116 and General Chemistry I Laboratory
CH 117 General Chemistry II
& CH 118 and General Chemistry II Laboratory
CH 235 Organic Chemistry I
& CH 236 and Organic Chemistry I Laboratory
CH 237 Organic Chemistry II
& CH 238 and Organic Chemistry II Laboratory
CH 460 Fundamentals of Biochemistry
MA 125 Calculus I
MA 126 Calculus II
PH 202 College Physics II
PH 222 General Physics II

Internship
KIN 499 Fitness Internship 3

Total Hours 123-128

Students need to take 5-23 hours of General Electives to reach the 120 hour requirement in order to graduate.

1 This elective is in addition to the 3 hours of KIN 499 in the Internship section. No more than a total of 6 hours of KIN 499 may be applied to the degree.

2 Courses taken may not be applied to both major requirements and core curriculum. A maximum of 10 hours of PH, MA, CH, or BY courses can be taken to meet this requirement.

3 Either PY 330 or PY 218 will count as a major elective

Kinesiology Major: Fitness Leadership Concentration

A grade of "C" or better is required in all math, science, and major courses. Note: UAB requires 120 total semester hours in order to graduate. Students with this major will need additional electives to meet this requirement.

Core Curriculum for Kinesiology Major: Fitness Leadership Concentration

Refer to Core Curriculum (http://catalog.uab.edu/shared/uab_undergraduate_experience)

Lower Division Requirements Kinesiology Major: Fitness Leadership Concentration

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>BY 115</td>
<td>4</td>
</tr>
<tr>
<td>BY 116</td>
<td>4</td>
</tr>
<tr>
<td>First Aid</td>
<td></td>
</tr>
<tr>
<td>CHHS 140</td>
<td>3</td>
</tr>
<tr>
<td>Personal Health</td>
<td></td>
</tr>
<tr>
<td>CHHS 141</td>
<td>3</td>
</tr>
<tr>
<td>Educational Statistics</td>
<td></td>
</tr>
<tr>
<td>EPR 214</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 105</td>
<td>Introductory Chemistry I</td>
</tr>
<tr>
<td>&amp; CH 106</td>
<td>and Introductory Chemistry I Laboratory (If not taken in core curriculum)</td>
</tr>
<tr>
<td>or PY 101</td>
<td>Introduction to Psychology</td>
</tr>
</tbody>
</table>

Technology
CS 101 Fluency With Information Technology 3

Business Course
BUS 101 Introduction to Business 3
or BUS 102 Business Foundations

Business Electives
Select two of the following, may choose only one EC elective: 6
FN 101 Personal Finance
LS 246 Legal Environment of Business
EC 210 Principles of Microeconomics
EC 110 Economics and Society

Total Hours 33

1 See program policy for 0 credit waiver criteria.

Major Requirements for Kinesiology with a Fitness Leadership Concentration

Requirements | Hours
--------------|-------
Aquatics
KIN 101 Beginning and Advanced Beginning Swimming 1
KIN 102 Intermediate Swimming/Swimmer Course 1
KIN 103 Lifeguard Training 1

Physical Education
KIN 115 Weight Training 1
KIN 131 Aerobics 1
KIN 132 Group Exercise Leadership 1
KIN 136 Intro to Physical Education Fitness and Sport 3
KIN 307 Applied Kinesiology 3
KIN 340 Planning/Management of Fitness Facilities 3
KIN 400 Physiology of Exercise 4
KIN 405 Sports Nutrition 3
KIN 440 Principles of Conditioning the Athlete 3
KIN 485 Exercise Testing/Prescription 3

Select one of the following: 3

Golf
KIN 105
KIN 112 Dance and Gymnastics
KIN 114 Rec Games/Outdoor Leisure
KIN 116 Ballroom and Latin Dancing
KIN 117 Team Sports
KIN 118 Sports Using Implements
KIN 124 Beginning Whitewater Kayaking
KIN 126 Flying Disc Sports
KIN 130 Scuba Diving

Select four of the following: 11-12
KIN 305 Motor Development
CHHS 342 Introduction to Health Education/Promotion
KIN 402 Basic Athletic Training
KIN 407 Coaching Young Athletes
KIN 450 Physical Activity for Individuals with Disabilities/SL
KIN 451 Physical Activity for Senior Adults
KIN 460 Clinical Exercise Physiology
### Community Health and Human Services: Community Health Concentration
#### Proposed Program of Study

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour/Second Term</th>
<th>Hour/Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 101</td>
<td>3 CMST 320</td>
<td>3 CHHS 223</td>
<td>3</td>
</tr>
<tr>
<td>CORE Curriculum Area I: CHHS 101</td>
<td>3 CHHS 400</td>
<td>3 CHHS 410</td>
<td>3</td>
</tr>
<tr>
<td>CORE Curriculum Area II: CHHS 221</td>
<td>3 CHHS 400</td>
<td>3 CHHS 410</td>
<td>3</td>
</tr>
<tr>
<td>CORE Curriculum Area III: CHHS 322</td>
<td>3 CHHS 400</td>
<td>3 CHHS 410</td>
<td>3</td>
</tr>
<tr>
<td>CORE Curriculum Area IV: CHHS 423</td>
<td>3 CHHS 400</td>
<td>3 CHHS 410</td>
<td>3</td>
</tr>
<tr>
<td>Total credit hours: 120</td>
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</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour/Second Term</th>
<th>Hour/Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 342</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 343</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>Minor Area Course</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>EPR 214</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>Total credit hours: 120</td>
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</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour/Second Term</th>
<th>Hour/Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 420</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 425</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>AC 200</td>
<td>3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total credit hours: 120</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour/Second Term</th>
<th>Hour/Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 431</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 452</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>HE Elective</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>Minor Area Course</td>
<td>3 CHHS 455</td>
<td>3 CHHS 499</td>
<td>3</td>
</tr>
<tr>
<td>Total credit hours: 120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Kinesiology (Teacher Certification) Proposed Program of Study**

**Freshman**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour/Second Term</th>
<th>Hour/Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 100</td>
<td>2-3 CHHS 101</td>
<td>3 CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>3 KIN 101</td>
<td>4 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>BY 101</td>
<td>4 CHHS 101</td>
<td>5 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>PY 101</td>
<td>3 KIN 101</td>
<td>4 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>KIN 101</td>
<td>1 CHHS 101</td>
<td>4 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>Total credit hours: 120-130</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour/Second Term</th>
<th>Hour/Summer Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115</td>
<td>4 CHHS 101</td>
<td>5 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>KIN 131</td>
<td>1 CHHS 101</td>
<td>4 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>KIN 117</td>
<td>1 CHHS 101</td>
<td>4 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>EDU 200</td>
<td>3 CHHS 101</td>
<td>4 CHHS 101</td>
<td>3</td>
</tr>
<tr>
<td>Total credit hours: 120-130</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Core Curriculum Area II: Literature 3
Core Curriculum Area II: Fine Art 3

Junior
First Term | Hours | Second Term | Hours
---|---|---|---
HPE 200  | 2  | KIN 201  | 2
ECC 300  | 3  | KIN 112  | 1
EPR 363  | 3  | KIN 132  | 1
KIN 305  | 3  | KIN 320  | 4
KIN 300  | 3  | KIN 308  | 3
KIN 307  | 3  | KIN 311  | 3
KIN 323  | 3

Senior
First Term | Hours | Second Term | Hours
---|---|---|---
KIN 400  | 4  | KIN 495  | 9
KIN 489  | 6  |
KIN 402  | 1  |
KIN 307  | 3  |

Total credit hours: 131-132

Kinesiology Fitness Leadership Concentration - Proposed Program of Study

Freshman
First Term | Hours | Second Term | Hours
---|---|---|---
EDU 100  | 2-3  | EH 102  | 3
EH 101  | 3  | KIN 136  | 3
BY 101  | 4  | CH 105  | 4
& BY 102 | 3  | CH 106  | 3
PY 101  | 3  |

Sophomore
First Term | Hours | Second Term | Hours
---|---|---|---
BY 115  | 4  | EPR 214  | 3
KIN 131  | 1  | BY 116  | 4
CH 115  | 4  | CHHS 141  | 3
& CH 116 | 3  |
CHHS 140 | 3  | KIN 132  | 1
Core Curriculum Area II: Fine Art 3
& CHHS 141 | 3  |
Core Curriculum Area II: Literature Sequence 3
Core Curriculum Area II: Literature Sequence 3

Junior
First Term | Hours | Second Term | Hours
---|---|---|---
KIN 307  | 3  | KIN 400  | 4
EDT 300  | 3  | KIN 451  | 3

Senior
First Term | Hours | Second Term | Hours
---|---|---|---
KIN 485  | 3  | KIN 499  | 3-6
KIN 402  | 2  | KIN 440  | 3
KIN 451  | 3  | KIN 405  | 3

Total credit hours: 111-116
Community Health and Human Services Minors

The Community Health and Human Services program offers two minors. The Community Health minor provides background information related to health issues and health programming. A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and a minor.

Minor Requirements for Community Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 141 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 223 Introduction to Disease Prevention in Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 342 Introduction to Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 404 Global Trends in Health Education/Promotion</td>
<td>3</td>
</tr>
</tbody>
</table>

Community Health Electives

Select three of the following courses:

- CHHS 343 Behavioral Theory in Health Education/Promotion
- CHHS 402 Mental Health and Stress Management
- CHHS 408 Drug Abuse Prevention and Education
- CHHS 421 Health Communication
- CHHS 423 Human Sexuality
- CHHS 431 Planning and Implementing Health Education/Promotion Programs
- CHHS 432 Administration of Health Education/Promotion Programs
- CHHS 452 Evaluation and Grantsmanship
- CHHS 489 Intervention Strategies for Health Education/Promotion
- CHHS 498 Lifespan Dimensions in Women's Health and Nutrition

This minor is not available to Community Health majors.

Minor Requirements for Human Services

The Human Services Minor provides background information related to the human services field as well as some applied courses. A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and a minor. This minor is open to all students except Humans Services majors.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 350 Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 415 Case Management in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 420 Helping Skills in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 425 Community Resources/Identification/Mobilization in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 455 Fund Raising in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 460 Leadership in Non-Profit Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 21

Minor Requirements for Kinesiology: Exercise Science

A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and minor. Students cannot apply courses toward both major and minor course requirements. Students may need to take additional electives to reach the 19 hour requirement in order to receive the minor (e.g. students who fulfill the HE 140 "0" credit hour waiver).

The BY 115, BY 116, and HE 140 requirements are waived for ONLY students majoring in Biomedical Sciences, who have completed BMD 310 (4 hrs.), BMD 315 (4 hrs.), and CDS 425 (1 hr.), respectively. As BMD 310, BMD 315, and CDS 425 cannot be used to satisfy both the Biomedical Sciences major and the Exercise Science minor, students must replace these 9 hours with courses from the Electives listed below. These replacement hours must include KIN 307.

See Kinesiology Program policy for "0" credit hour HE 140 waiver criteria. Students who meet the HE 140 waiver requirements need to take an additional 3 hour Elective to reach the minimum 19 hour requirement in order to receive the minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td></td>
</tr>
<tr>
<td>Health</td>
<td>2-3</td>
</tr>
<tr>
<td>HPE 200 Quality of Life</td>
<td></td>
</tr>
<tr>
<td>or CHHS 141 Personal Health</td>
<td></td>
</tr>
<tr>
<td>or KIN 222 Concepts of Health and Fitness</td>
<td></td>
</tr>
<tr>
<td>Exercise Science</td>
<td>4</td>
</tr>
<tr>
<td>KIN 400 Physiology of Exercise</td>
<td></td>
</tr>
<tr>
<td>Electives (Choose 1-5 Hours)</td>
<td></td>
</tr>
<tr>
<td>KIN 132 Group Exercise Leadership</td>
<td>1</td>
</tr>
<tr>
<td>KIN 307 Applied Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 402 Basic Athletic Training</td>
<td>2</td>
</tr>
<tr>
<td>KIN 405 Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KIN 440 Principles of Conditioning the Athlete</td>
<td>3</td>
</tr>
<tr>
<td>KIN 450 Physical Activity for Individuals with Disabilities/SL</td>
<td>3</td>
</tr>
<tr>
<td>KIN 451 Physical Activity for Senior Adults</td>
<td>3</td>
</tr>
<tr>
<td>KIN 460 Clinical Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 470 Advanced Treatment Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KIN 485 Exercise Testing/Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KIN 499 Fitness Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Kinesiology Minor: Athletic Coaching

A grade of "C" or better is required in all courses in the minor. Students cannot apply courses toward both a major and minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 140 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>Kinesiology</td>
<td></td>
</tr>
<tr>
<td>KIN 222 Concepts of Health and Fitness</td>
<td>3</td>
</tr>
</tbody>
</table>
without imposing undue hardships.

be made to give the student the benefit of the new educational program applied to students already enrolled; but, in such cases, every effort will the right to make changes in its degree requirements. Changes may be

and technological developments, the School of Engineering reserves

Computer Engineering is available.

Science, and Civil Engineering. A shared Doctor of Philosophy degree in

degrees are offered in Materials/Metallurgical Engineering, Materials

Interdisciplinary Engineering are also offered. Joint Doctor of Philosophy

in Biomedical Engineering and the Doctor of Philosophy degree in

Safety Engineering and Management. The Doctor of Philosophy degree

degree is offered with concentrations in Construction Engineering

Engineering participates in UABTeach (https://www.uab.edu/uabteach/)

For more information, see the UABTeach (https://www.uab.edu/uabteach)

effectively participate as a member of society. Additionally the School of

to prepare the graduate to practice the profession of engineering and

study in a particular engineering discipline. The curricula are designed

intended to provide a breadth of technical education; and concentrated

in the UAB Core Curriculum as specified for engineering majors; basic

mathematics and science courses; a series of engineering courses

and Mechanical Engineering. The School of Engineering offers programs of study leading
to Bachelor of Science in Biomedical Engineering, Bachelor of Science in

Civil Engineering, Bachelor of Science in Electrical Engineering,

Bachelor of Science in Materials Engineering, and Bachelor of Science in

Mechanical Engineering. All undergraduate programs are accredited by

the Engineering Accreditation Commission (EAC) of ABET, http://

www.abet.org.

Each undergraduate curriculum is comprised of four components:
the UAB Core Curriculum as specified for engineering majors; basic

mechanics and science courses; a series of engineering courses

intended to provide a breadth of technical education; and concentrated

in a particular engineering discipline. The curricula are designed
to prepare the graduate to practice the profession of engineering and
effectively participate as a member of society. Additionally the School of

Engineering participates in UABTeach (https://www.uab.edu/uabteach/).

For more information, see the UABTeach (https://www.uab.edu/uabteach)

website at www.uab.edu/uabteach/

At the graduate level, the School of Engineering offers programs of
study leading to the Master of Science in Biomedical Engineering, the

Master of Science in Civil Engineering, the Master of Science in Electrical

Engineering, the Master of Science in Materials Engineering, and the

Master of Science in Mechanical Engineering. A Master of Engineering
degree is offered with concentrations in Construction Engineering

Management, Information Engineering and Management, and Advanced

Safety Engineering and Management. The Doctor of Philosophy degree

in Biomedical Engineering and the Doctor of Philosophy degree in

Interdisciplinary Engineering are also offered. Joint Doctor of Philosophy
degrees are offered in Materials/Metallurgical Engineering, Materials

Science, and Civil Engineering. A shared Doctor of Philosophy degree in

Computer Engineering is available.

In order to keep pace with accreditation standards as well as educational

and technological developments, the School of Engineering reserves

the right to make changes in its degree requirements. Changes may be

applied to students already enrolled; but, in such cases, every effort will
be made to give the student the benefit of the new educational program
without imposing undue hardships.

Vision

To be nationally and internationally recognized as a top research-oriented
School of Engineering: a first choice for a quality undergraduate and

graduate education.

Mission

To create and apply knowledge for the benefit of society, and to prepare
engineering graduates to be immediately productive and able to adapt
and to lead in a rapidly changing environment.

Goals

- Provide an excellent educational experience for a community of

highly capable students that reflect the diversity of our society

- Develop an education and research program that fosters the
development of a community of scholars capable of defining and

solving problems to benefit society

- Develop an internationally recognized research program focused in

distinctive multi-disciplinary areas

- Develop extensive and mutually beneficial relationships that foster

understanding, respect, and a sense of common responsibility

- Provide an environment where faculty and staff can achieve their full

potential for the mutual benefit of the School and the individual

School of Engineering Office of Academic Programs

UAB School of Engineering • Hoehn Engineering Building • 1075 13th
Street South Suite 101 • Birmingham, Alabama 35294-4440 • Telephone:
(205) 934-8410 • Email: enginfo@uab.edu (info@uab.edu)

UAB Admissions Office

1701 11th Ave South • Birmingham, Alabama 35294-1150 •
Telephone: (205) 934-8221 • Email: chooseuab@uab.edu
(undergradadmit@uab.edu)

Pre-college Preparation

The recommended program of high school preparation for the study
of engineering includes four units of English; four units of mathematics
(including algebra, geometry, trigonometry, and calculus); four units of
science (biology, chemistry, and physics are strongly recommended); and
four units of social science (history, psychology, sociology, etc.).
Mechanical drawing, keyboarding, and computer science are also
excellent preparatory courses.

Admission to the School of Engineering

In addition to satisfying the general requirements for admission to UAB
listed in the Undergraduate Catalog, incoming students must be eligible
to enroll in Pre-Calculus Algebra (MA 105) or higher in the pre-calculus
series to be admitted to the School of Engineering. Students who do not
satisfy this requirement but are still interested in an engineering program
should successfully complete the course(s) necessary to satisfy the
requirement(s) as an Undeclared - Interest in Engineering student in the
University Academic Success Center and then request a major change.

All freshmen students who meet the requirement for admission to the
School of Engineering are admitted as Pre-Biomedical, Pre-Civil, Pre-
Electrical, Pre-Materials, or Pre-Mechanical Engineering major based on
their intended program. Undecided students are admitted as Pre-General
Engineering students. Freshmen indicating an interest in Biomedical Engineering with an ACT score of 28 or higher (or SAT equivalent) and a high school GPA of at least 3.20 may be admitted directly to the Biomedical Engineering program. Students admitted to UAB conditionally or on academic probation are not eligible for admission to the School of Engineering and may be admitted to an engineering program only upon successful completion of the requirements for advancement listed below.

In addition to math placement into Pre-Calculus Algebra (MA 105) or higher, all transfer students or students seeking re-admission to UAB must have a cumulative GPA of 2.20 and, if applicable, an institutional (UAB) GPA of 2.20 to be admitted to the School of Engineering. These students are admitted as Pre-Civil, Pre-Electrical, Pre-Materials, or Pre-Mechanical Engineering majors based on their intended program.

Students seeking admission to Biomedical Engineering are admitted to Pre-Biomedical Engineering if they have a cumulative GPA of 3.20 and, if applicable, an institutional (UAB) GPA of 3.20. Transfer and returning students receive a Pre-Engineering designation for a minimum of one semester following admission to UAB and are then admitted to their chosen department upon completion of the minimum requirements listed below.

Students who are seeking admission to the School of Engineering and are currently enrolled in other UAB schools or divisions must have an institutional (UAB) GPA of 2.20 (3.20 for Pre-Biomedical) or greater and must be eligible to enroll in Pre-Calculus Algebra (MA 105) or higher in the pre-calculus series.

**Requirements for Advancing from Pre-Engineering to Civil, Electrical, Materials or Mechanical Engineering**

In order to advance from pre-engineering to one of the engineering majors listed above, students must meet the following minimum requirements:

- Sophomore standing
- Completion (C or better) of MA 125 Calculus I and MA 126 Calculus II
- Completion (C or better) of two required science courses with appropriate labs
- Completion of EGR 110 and EGR 111 (or EGR 200), ME 102 Engineering Graphics, and EGR 150 or BME 150 (or equivalent)
- An institutional (UAB) GPA of 2.20

**Requirements for Advancing from Pre-Engineering to Biomedical Engineering**

In order to advance from pre-engineering to Biomedical Engineering, students must meet all of the following minimum requirements:

- Sophomore standing
- Completion (C or better) of MA 125 Calculus I and MA 126 Calculus II
- Completion (C or better) of two required science courses with appropriate labs
- Completion of EGR 110 and EGR 111 (or EGR 200)
- Completion of ME 102 Engineering Graphics
- An institutional (UAB) GPA of 3.20 (and cumulative [UAB + transfer] GPA of 3.20 if applicable)

If a Pre-Biomedical or Pre-Engineering student is not eligible to advance into Biomedical Engineering after completing a maximum of 64 hours of course work, they may advance into another engineering major if the qualifications for that major (as listed above) are met.

**Change of Major within the School of Engineering**

Students changing majors within the School of Engineering should follow procedures outlined under Declaration of Major in this catalog. Students must meet the requirements listed previously.

**Transfer Credit**

In addition to guidelines for transfer credit outlined in the current UAB catalog, the following policies apply to students transferring into the School of Engineering:

1. The UAB School of Engineering may grant transfer credit for engineering, math and science courses taken at another institution only if a grade of C or higher was earned. Students admitted to the School of Engineering who have earned a grade of D in a course within a required sequence of courses may be required to repeat all or part of the sequence.
2. Engineering technology courses are not equivalent to engineering courses.

**Transient Credit**

In addition to guidelines for transient credit outlined in the current UAB catalog, engineering requires the following:

The prerequisites for any course that is part of a student's UAB engineering program must be satisfied prior to starting the course. This requirement must be met for courses taken at UAB and for courses the student wishes to take as transient and transfer the credit to UAB under the UAB Transient policy. Additionally, a student who has attempted but failed to successfully complete a UAB course offered by their specific engineering program must repeat that course at UAB for credit.

**Dual Degree Program Participants**

Dual degree program participants from cooperating four-year institutions must provide the following information to School of Engineering advisors in order to advance from pre-engineering to an engineering major:

- A letter or email from the student acknowledging their participation in the Dual Degree Program and intent to complete an Engineering degree at UAB.
- A letter from the cooperating institution stating that the student has successfully completed the general education requirements at that institution, and will be awarded a degree from the institution upon completion of UAB Engineering requirements.

**Reasonable Progress**

All students in the School of Engineering must continually make reasonable progress toward the completion of their academic programs. To assure that students are achieving reasonable academic progress towards graduation, the School of Engineering provides academic advice and planning each term through EGR 110 and EGR 111 and appointments with assigned engineering advisors. During advising, students receive a registration access code (RAC) which will allow them to register for courses the following semester. Pre-Engineering students in all disciplines are advised by engineering faculty in the School of Engineering’s Office of Academic Programs (OAP). Upon admission
to Biomedical, Civil, Electrical, Materials or Mechanical Engineering, students are advised by engineering faculty within their major.

Reasonable progress is defined as follows:

1. All students must comply with appropriate prerequisite and concurrent requirements for all courses in which they enroll. Students will be administratively withdrawn from engineering courses for which they do not meet prerequisite or concurrent requirements.
2. All required courses offered by the student's specific engineering program failed at UAB must be repeated and successfully completed at UAB for the student to apply the credit to satisfy degree requirements.
3. The School of Engineering follows the University’s Course Repeat and Forgiveness Policy as previously stated in this catalog.
4. Engineering students with the exception of students majoring in biomedical engineering must maintain a GPA of at least 2.00 in all UAB courses and all UAB engineering courses. Biomedical engineering majors must maintain an institutional (UAB) GPA of at least 3.00.
5. Engineering students must successfully complete two courses applicable to their engineering program within an academic year.
6. If a pre-engineering student is not eligible to advance to an engineering major within 64 hours, the student may be dismissed from the School of Engineering and may not seek readmission to the School of Engineering until another baccalaureate degree is earned.

Academic Warning, Probation, and Suspension

The School of Engineering follows the UAB Policy for Academic Warning, Probation, and Suspension with the following additions:

1. Students on Academic Warning or Probation are advised to register for no more than 14 semester credit hours per term.
2. While on Academic Warning or Probation, students may only register for 100- and 200-level engineering courses, or repeat courses for which they previously earned a grade of D or F.
3. Students suspended from the University will be removed from the School of Engineering and returned to the College of Arts and Sciences with a Liberal Arts designation if another major is not specified at the time of suspension. Students may not seek readmission to the School of Engineering unless, and until, the requirements for advancing from a pre-engineering designation to Civil, Electrical, Materials, Mechanical, or Biomedical Engineering are met.
4. First-term freshmen students in Biomedical Engineering who have an institutional (UAB) GPA below a 3.00 will be placed on academic warning in Biomedical Engineering. If their institutional (UAB) GPA is not a 3.00 or greater after the next term enrolled, the student will be placed on academic probation in Biomedical Engineering. Biomedical students (excluding first-term freshmen) who have an institutional (UAB) GPA below a 3.00 will be placed on academic probation in Biomedical Engineering. Biomedical Engineering students on academic probation who do not meet prerequisite or concurrent requirements.

Appeal for Reinstatement to the School of Engineering

A student suspended from the School of Engineering must meet the requirements necessary to advance to their intended major before petitioning for reinstatement. The petition should be addressed to the Associate Dean and should clearly state the circumstances resulting in their dismissal from the School and include steps taken to resolve the deficiency. The student's petition should be received in the Office of the Associate Dean of Engineering no later than five working days prior to the beginning of the desired semester of re-entry.

Graduation Requirements

In addition to satisfying the general UAB graduation requirements (Baccalaureate Degrees), all engineering students must earn an engineering grade point average (GPA) of at least 2.00 in order to graduate. The engineering grade point average includes all engineering course work applicable to the degree attempted at UAB. Students who are on academic warning or probation cannot graduate from the School of Engineering.

Individual engineering programs may have additional graduation requirements which can be found in the program description.

Office of Academic Programs

Director: Dr. Zoe B. Dwyer

The freshman year program is similar among the engineering curricula at UAB. It is based upon substantial high school preparation in English, mathematics, and natural sciences. Students must enroll in appropriate English, chemistry, mathematics, or physics sequences according to placement. Incomplete preparation at the high school level is not unusual, and coursework to strengthen the student's academic background is routinely offered by UAB. Advice on this subject may be obtained from the Office of Academic Programs.

Suggested Freshman Year

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 110 Introduction to Engineering I and Introduction to Engineering II</td>
<td>2</td>
</tr>
<tr>
<td>ME 102 Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>EGR 150 Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 116 General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 118 General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EH 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>EH 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MA 125 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PH 221 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 221L and General Physics Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

1 Transfer Students should substitute EGR 200 for EGR 110 and EGR 111
2. Except for Electrical Engineering

3. Except for Electrical Engineering and Mechanical Engineering

**Pre-Health Program Option**

A number of students choose a pre-health curriculum before pursuing a course of study in one of the health disciplines, such as medicine, dentistry, or optometry. As health professions become more technologically based, engineering provides an excellent undergraduate preparation for these fields. All courses necessary for passage of professional-school entrance examinations should be completed by the end of the sophomore year.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 123 Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 124 Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BY 271 Biology of Microorganisms (pre-optometry only)</td>
<td>4</td>
</tr>
<tr>
<td>Pre-dental students should also choose one Biology Elective</td>
<td></td>
</tr>
<tr>
<td>CH 235 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 236 Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CH 237 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CH 238 Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Other courses in psychology, sociology, and computer sciences may be required. UAB School of Optometry requires one semester of psychology, two semesters of additional courses in any social and behavioral science, and one semester of Biochemistry. Biochemistry is strongly encouraged for pre-medical and pre-dentistry students. UAB School of Dentistry encourages additional courses to enhance manual dexterity (sculpting, painting, etc.). You are advised to check with the admissions office of the specific schools to which you are applying for further details.

Any undergraduate program in engineering can be configured to satisfy pre-health requirements but requires additional coursework. Further information on pre-health program options can be obtained from:

Dr. Dale S. Feldman • School of Engineering, Pre-Health Program Coordinator • Hoehn Engineering Building • 1075 13th Street South • Room 361 • Birmingham, Alabama 35294-4440

**Core Curriculum as Specified for Engineering Majors**

Students in the School of Engineering follow the University Core Curriculum, which includes EH 101 English Composition I and EH 102 English Composition II, with the following exceptions and additional specifications:

1. Engineering students are required to take 9 hours in Core Curriculum Area II: Humanities and Fine Arts to include a minimum of 3 semester hours in literature and 3 semester hours in the fine arts. The following courses are recommended as they best complement the technical coursework of engineering programs: CMST 101 Public Speaking, EH 217 World Literature I: Before 1660, EH 218 World Literature II: 1660-Present, PHL 115 Contemporary Moral Issues, PHL 116 Bioethics, and PHL 125 Introduction to Ethics.

2. Engineering students should take the following course to satisfy the Core Curriculum Area III Mathematics requirement: MA 125 Calculus I.

3. Engineering students should take the following courses to satisfy the Core Curriculum Area III Natural Science requirement: PH 221 General Physics I and PH 222 General Physics II.

4. Engineering students are required to take 9 hours in Core Curriculum Area IV: History, Social and Behavioral Sciences to include a minimum of 3 semester hours in history. Please note: for Core Area IV, students cannot apply more than 6 hours of History. The following courses are recommended as they best complement the technical coursework of engineering programs: EC 210 Principles of Microeconomics, EC 211 Principles of Macroeconomics, ITS 101 Introduction to International Studies, PY 101 Introduction to Psychology, SOC 100 Introduction to Sociology, and SOC 245 Contemporary Social Problems.

5. Engineering majors must complete a six-semester-hour sequence in either Area II or Area IV. To be considered a sequence, courses must have the same prefix and must be sequential if possible. Sequences in history, such as HY 101 Western Civilization I and HY 102 Western Civilization II or literature, such as EH 221 British and Irish Literature I: Before 1800 and EH 222 British and Irish Literature II: 1800-Present are common. Two courses in a foreign language such as ARA 101 and ARA 102; CHI 101 and CHI 102; FR 101 and FR 102; FR 201 and FR 202; GN 101 and GN 102; GN 201 and GN 202; JPA 101 and JPA 102; SPA 101 and SPA 102; andSPA 201 and SPA 202 also fulfill this requirement. Any two Area II courses in one of the following disciplines: ARH, PHL or THR; or any two Area IV courses in one of the following disciplines: ANTH, EC, PSC, PY, or SOC, can also fulfill this requirement.

**University Requirements for the School of Engineering**

In order to receive a degree in the School of Engineering at UAB, a student must have at least 128 semester hours of acceptable credit.

Students majoring in disciplines other than engineering may choose a minor in engineering to become familiar with topics such as biomedical engineering, environmental engineering, electrical systems, engineering materials, thermodynamic sciences, applied mechanics, or software engineering. Because technology greatly affects most aspects of society, the study of technology in conjunction with the pursuit of a non-engineering major can provide a worthwhile career-oriented educational experience.

Because enrollment in engineering courses is restricted, it is essential that students with declared minors in engineering receive an approved program of study. These students should visit the School of Engineering Office of Academic Programs to receive relevant information. Students planning to minor in engineering should exercise care in the selection of courses to meet the requirements of their major as well as concurrently satisfying prerequisite requirements for engineering courses. Students should be particularly aware of the mathematics and natural sciences prerequisites.

Students majoring in engineering may select a minor offered from outside their engineering discipline as listed below, with the exception of engineering science.

To satisfy the minor requirements, a minimum grade point average of 2.00 is required for all engineering coursework attempted for all programs except biomedical engineering which requires a minimum GPA of 3.00 in all engineering coursework. Transfer students wishing to earn a minor...
in engineering must take at least nine (9) semester hours at UAB and earn a minimum GPA of 2.00 in UAB engineering courses attempted with the exception of biomedical engineering. For the biomedical engineering minor, students must earn a minimum GPA of 3.00 in UAB engineering coursework attempted and must take at least nine (9) semester hours at UAB. Students who are not majoring in biomedical engineering but wish to enroll in 300- or 400-level BME courses must fulfill course prerequisites, have an institutional (UAB) GPA of at least 3.00, and be approved by the BME Undergraduate Program Director.

A non-engineering major who wishes to minor in engineering may choose one of the minor programs listed here.

### Minor Requirements for Applied Mechanics

*Offered through the Department of Civil Construction and Environmental Engineering*

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td></td>
</tr>
<tr>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
<td></td>
</tr>
<tr>
<td>Required Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 220 Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>CE 360 Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ME 215 Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Civil Engineering Electives**

Select three of the following courses:

- CE 420 Advanced Mechanics
- CE 460 Structural Mechanics
- CE 461 Introduction to the Finite Element Method
- CE 462 Advanced Structural Analysis
- CE 464 Structural Dynamics

**Total Hours:** 21

### Minor Requirements For Biomedical Engineering

*Offered through the Department of Biomedical Engineering*

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td></td>
</tr>
<tr>
<td>A minimum GPA of 3.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 3.00 in UAB engineering courses attempted.</td>
<td></td>
</tr>
<tr>
<td>Required Biomedical Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>BME 210 Engineering in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BME 401 Undergraduate Biomedical Engineering Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Required Introduction to Engineering Course(s)**

- EGR 110 Introduction to Engineering I
- EGR 111 & Introduction to Engineering II
- or EGR 200 Introduction to Engineering Design

**Biomedical Engineering Electives**

Select three of the following courses:

- BME 310 Biomatiers
- BME 312 Biocomputing
- BME 313 Bioinstrumentation
- BME 333 Biomechanics of Solids
- BME 340 Bioimaging
- BME 350 Biological Transport Phenomena

**Biomedical Engineering Electives**

Select two of the following courses: 6

- BME 408 Advanced Biological Transport Phenomena
- BME 417 Engineering Analysis
- BME 420 Implant-Tissue Interactions
- BME 423 Living Systems Analysis
- BME 435 Tissue Engineering
- BME 443 Medical Image Processing
- BME 446 Principles of MRI
- BME 450 Computational Neuroscience
- BME 461 Bioelectric Phenomena
- BME 471 Continuum Mechanics of Solids
- BME 480 Biomolecular Modeling

**Total Hours:** 21

### Minor Requirements For Civil Engineering

*Offered through the Department of Civil Construction and Environmental Engineering*

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td></td>
</tr>
<tr>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
<td></td>
</tr>
<tr>
<td>Required Civil Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 220 Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>CE 230 Plane Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CE 236 Environmental Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Civil Engineering Electives**

Select three of the following courses:

- CE 332 Soil Engineering
- CE 345 Transportation Engineering
- CE 360 Structural Analysis
- CE 395 Engineering Economics
- CE 450 Structural Steel Design
- CE 453 Design of Wood Structures
- CE 455 Reinforced Concrete Design
- CE 457 Concrete Technology

**Total Hours:** 21

### Minor Requirements for Electrical Engineering

*Offered through the Department of Electrical and Computer Engineering*

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Requirement</td>
<td></td>
</tr>
<tr>
<td>A minimum GPA of 2.00 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.</td>
<td></td>
</tr>
<tr>
<td>Required Electrical Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>EE 210 Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>EE 233 Engineering Programming Methods</td>
<td>3</td>
</tr>
</tbody>
</table>
### Minor Requirements For Engineering Science

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Engineering Courses</strong></td>
<td></td>
</tr>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>EE 312 Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 241 Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>MSE 280 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Introduction to Engineering Course(s)</strong></td>
<td>2</td>
</tr>
<tr>
<td>EGR 110 Introduction to Engineering I &amp; EGR 111 Introduction to Engineering II</td>
<td></td>
</tr>
<tr>
<td>or EGR 200 Introduction to Engineering Design</td>
<td></td>
</tr>
<tr>
<td><strong>Engineering Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select two of the following courses:</td>
<td>6-7</td>
</tr>
<tr>
<td>EE 210 Digital Logic</td>
<td></td>
</tr>
<tr>
<td>ME 215 Dynamics</td>
<td></td>
</tr>
<tr>
<td>ME 321 Introduction to Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>MSE 281 Physical Materials I &amp; 281L Physical Materials I Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>20-21</td>
</tr>
</tbody>
</table>

### Minor Requirements For Environmental Engineering

**Offered through the Department of Civil Construction and Environmental Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Civil Engineering Courses</strong></td>
<td></td>
</tr>
<tr>
<td>CE 236 Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 337 Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CE 430 Water Supply/Drainage Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 480 Introduction to Water and Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td><strong>Civil Engineering Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select three of the following courses:</td>
<td>9</td>
</tr>
<tr>
<td>CE 344 Civil Engineering Analysis I</td>
<td></td>
</tr>
<tr>
<td>CE 433 Solid and Hazardous Wastes Management</td>
<td></td>
</tr>
<tr>
<td>CE 434 Air Quality Modeling and Monitoring</td>
<td></td>
</tr>
<tr>
<td>CE 437 Environmental Experimental Design and Field Sampling</td>
<td></td>
</tr>
<tr>
<td>CE 485 Engineering Hydrology</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>21</td>
</tr>
</tbody>
</table>

### Minor Requirements For Materials Engineering

**Offered through the Department of Materials Science and Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Materials Engineering Courses</strong></td>
<td></td>
</tr>
<tr>
<td>MSE 280 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 281 Physical Materials I &amp; 281L Physical Materials I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MSE 380 Thermodynamics of Materials</td>
<td>3</td>
</tr>
</tbody>
</table>
MSE 381  Physical Materials II  3
MSE 382  Mechanical Behavior of Materials  3
MSE 465  Characterization of Materials  4
& 465L and Characterization of Materials Laboratory

Materials Engineering Electives
Select one of the following courses:  3-4
MSE 413  Composite Materials
MSE 430  Polymeric Materials
& 430L and Polymeric Materials Laboratory
MSE 464  Metals and Alloys
& 464L and Metals and Alloys Laboratory
MSE 470  Ceramic Materials

Total Hours  23-24

Minor Requirements for Mechanical Engineering - Thermal Systems
Offered through the Department of Mechanical Engineering

Requirements

Grade Requirement
A minimum GPA of 2.00 is required for all engineering coursework.
Transfer students must earn a minimum GPA of 2.00 in UAB engineering courses attempted.

Required Engineering Courses
ME 241  Thermodynamics I  3
ME 242  Thermodynamics II  3
ME 321  Introduction to Fluid Mechanics  3
ME 322  Introduction to Heat Transfer  3

Mechanical Engineering Electives
Select three courses from the following:  9
ME 361  Thermo-Fluids Systems
& 361L and Thermo-Fluids Systems Laboratory
ME 411  Intermediate Fluid Mechanics
ME 421  Introduction to Computational Fluid Dynamics Basics
ME 445  Combustion
ME 449  Power Generation
ME 455  Thermal-Fluid Systems Design

Total Hours  21

Business Administration Minor for Non-Business Majors
Engineering students may choose to pursue a Minor in Business Administration. This minor combined with an undergraduate engineering degree and co-op/internship experience provides a powerful and highly sought-after combination in today’s competitive economy. Engineering students interested in exploring the Business Administration Minor should contact the academic advisor in the School of Engineering (205) 934-8410.

Honors in Engineering
Honors Programs are offered by all undergraduate degree programs in the School of Engineering.

- Biomedical Engineering
- Civil Engineering
- Electrical Engineering
- Materials Engineering
- Mechanical Engineering

Purpose
The honors programs are intended to enrich educational opportunities for talented students in the School of Engineering.
Eligibility

Students who have earned a GPA of at least 3.25 (3.75 for BME); have completed MA 227 Calculus III or EGR 265 Math Tools for Engineering Problem Solving; and receive departmental endorsement are invited to participate in an engineering honors program. Invitations are extended by the Dean’s office during spring semester of each year.

Community college transfer students who have earned a GPA of at least 3.50 (3.75 for BME); have completed MA 227 Calculus III; and have been elected to Phi Theta Kappa are also eligible.

Requirements

Honors programs require nine credit hours of honors coursework.

- Students enroll in EGR 301 Honors Research I, a one-hour course, no later than junior year. Students participating in the Science and Technology Honors program are not required to take EGR 301.
- Students enroll in two one-hour seminars which can be taken at any time in their course of study.
- Students complete six hours of credit in departmental honors research.
- Individual programs may vary in the way credit is awarded. For information regarding departmental requirements, contact the departmental program director.

Benefits

Students who complete an engineering honors program will have earned nine credit hours in honors coursework. Honors research beyond the required six hours may be applied as graduate credit. Three credit hours of honors research may be applied as an undergraduate elective according to departmental policy. Students who complete an honors program in engineering with a minimum GPA of 3.0 will receive a bachelor’s degree “with Honors” in addition to any University honors designations.

Contact

For more information about Engineering Honors Programs, contact:

Dr. Timothy M. Wick • Senior Associate Dean and Professor of Biomedical Engineering • School of Engineering • Birmingham, AL 35294-4440 • Telephone (205) 934-8410

Department of Biomedical Engineering

Chair: Jianyi Zhang, M.D., Ph.D.

Biomedical engineering (BME) is the application of engineering principles and technology to the solution of problems in the life sciences and medicine. Biomedical engineers create knowledge and develop technologies that improve healthcare delivery and patient outcomes with an emphasis on reducing healthcare costs. Graduates create and apply knowledge at the interface of life sciences and engineering for the benefit of society. The BME undergraduate program prepares graduates to be immediately productive and able to adapt to a rapidly changing environment. The curriculum includes engineering core courses, mathematics, calculus-based physics, biology, chemistry, humanities, social and behavioral sciences, biomedical engineering core courses and electives. The curriculum culminates in a capstone design experience where interdisciplinary teams apply knowledge to solve real-world engineering problems. A bachelor’s degree in BME from UAB provides a foundation in medical devices, biomedical implants, biomaterials, and biomedical instrumentation to compete in an increasingly technical medical field, and also prepares students for graduate school, medical school, or professional school.

The Biomedical Engineering program is currently accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org

Freshmen with an ACT score of 28 or higher (or SAT equivalent) and a high school GPA of 3.20 or higher may be admitted directly to the Biomedical Engineering program. Please refer to the School of Engineering overview for policies regarding admission; change of major; transfer credit; transient status; dual degree programs; reasonable progress; academic warning, probation, and suspension; reinstatement appeals; and graduation requirements.

BME students must maintain an institutional (UAB) GPA of at least 3.00. First-term BME freshmen students who have an institutional GPA below 3.00 will be placed on academic warning in BME. If their institutional GPA is not at least 3.0 after the next term enrolled, they will be placed on academic probation in BME. BME undergraduates (other than first-term freshmen) who do not have an institutional GPA of at least 3.00 will be placed on BME academic probation. If at the end of the next term in which they enroll, their institutional GPA is not at least 3.00, they will be reclassified as Pre-General Engineering. To be re-admitted to the BME program, a student must have an institutional GPA of at least 3.20 and make a formal application for readmission.

BME students must have an institutional GPA of at least 3.00 and have completed at least 64 hours of course work applicable to their degree before they may register for 300-level and 400-level BME courses. BME students must also have an institutional GPA of 3.00 or higher and have earned a grade of C or better in all BME courses to graduate.

In addition to fulfilling course prerequisites, non-BME students (including pre-BME students and students seeking a BME minor) who wish to enroll in 300-level and 400-level BME courses must have an institutional (UAB) GPA of at least 3.00 as well as permission of the BME Undergraduate Advisor. Non-BME majors may not enroll in BME 423, BME 498, or BME 499. In addition a minimum overall GPA of 3.00 is required for all engineering course work applied to a BME minor. Transfer students seeking a BME minor must take at least nine (9) semester hours and earn a minimum GPA of 3.00 in UAB engineering courses attempted before enrolling in BME courses.

Vision

To be an internationally recognized, research oriented Department of Biomedical Engineering: a top choice for undergraduate and graduate education.

Mission

To improve healthcare by making scientific discoveries, solving problems and advancing technology using quantitative methods; to prepare graduates to succeed in the evolving fields of biomedical engineering and biotechnology.

Educational Objectives

Graduates of the Biomedical Engineering undergraduate program will:
1. Gain admission to graduate or professional school, or employment in engineering and/or health related professions and
2. Pursue opportunities for professional growth, development, and service

Lower Division Requirements For Biomedical Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
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</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>4</td>
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<tr>
<td>&amp; CH 118 and General Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Required Courses</strong></td>
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</tr>
<tr>
<td>BY 123 Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BY 210 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BY 409 Principles of Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>EGR 265 Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MA 260 Introduction to Linear Algebra</td>
<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>30</td>
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</tbody>
</table>

Major Requirements for Biomedical Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>Introduction to Engineering</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>EGR 110 Introduction to Engineering I &amp; EGR 111 and Introduction to Engineering II</td>
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<tr>
<td>EGR 200 Introduction to Engineering Design</td>
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<tr>
<td><strong>Engineering Courses</strong></td>
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<tr>
<td>CE 210 Statics</td>
<td>3</td>
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<td>EGR 150 Computer Methods in Engineering</td>
<td>3</td>
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<tr>
<td>ME 102 Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>MSE 280 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>EE 312 Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 215 Dynamics</td>
<td>3</td>
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<tr>
<td><strong>Required Biomedical Engineering Courses</strong></td>
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<tr>
<td>BME 210 Engineering in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BME 310 Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BME 312 Biocomputing</td>
<td>3</td>
</tr>
<tr>
<td>BME 313 Bioinstrumentation</td>
<td>3</td>
</tr>
<tr>
<td>BME 333 Biomechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>BME 340 Bioimaging</td>
<td>3</td>
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<tr>
<td>BME 350 Biological Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>BME 401 Undergraduate Biomedical Engineering Seminar</td>
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</tr>
<tr>
<td>BME 423 Living Systems Analysis</td>
<td>3</td>
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<tr>
<td>BME 423L Living Systems Analysis Laboratory</td>
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</tr>
<tr>
<td>BME 498 Capstone Design I Product Development</td>
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<tr>
<td>BME 499 Capstone Design II</td>
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<tr>
<td><strong>Biomedical Engineering Electives</strong></td>
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<tr>
<td>Select six credit hours from the following:</td>
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</tr>
<tr>
<td>BME 408 Advanced Biological Transport Phenomena</td>
<td></td>
</tr>
<tr>
<td>BME 417 Engineering Analysis</td>
<td></td>
</tr>
<tr>
<td>BME 420 Implant-Tissue Interactions</td>
<td></td>
</tr>
<tr>
<td>BME 435 Tissue Engineering</td>
<td></td>
</tr>
<tr>
<td>BME 450 Computational Neuroscience</td>
<td></td>
</tr>
<tr>
<td>BME 461 Bioelectric Phenomena</td>
<td></td>
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<tr>
<td>BME 471 Continuum Mechanics of Solids</td>
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<tr>
<td>BME 490 Special Topics in Biomedical Engineering</td>
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<tr>
<td>BME 491 Individual Study in Biomedical Engineering</td>
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</tr>
<tr>
<td>BME 494 Honors Research I</td>
<td>1</td>
</tr>
<tr>
<td><strong>Engineering/Math/Science Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select six credit hours from the following or from the list of Biomedical Engineering electives above</td>
<td>6</td>
</tr>
<tr>
<td>CE 337 Hydraulics</td>
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<tr>
<td>CE 345 Transportation Engineering</td>
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<tr>
<td>CE 360 Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CE 395 Engineering Economics</td>
<td></td>
</tr>
<tr>
<td>CE 420 Advanced Mechanics</td>
<td></td>
</tr>
<tr>
<td>CE 433 Solid and Hazardous Wastes Management</td>
<td></td>
</tr>
<tr>
<td>ME 360 Introduction to Mechatronic Systems Engineering</td>
<td></td>
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<tr>
<td>ME 370 Kinematics and Dynamics of Machinery</td>
<td></td>
</tr>
<tr>
<td>ME 371 Machine Design</td>
<td></td>
</tr>
<tr>
<td>ME 464 Introduction to Finite Element Method</td>
<td></td>
</tr>
<tr>
<td>MSE 281 Physical Materials I &amp; 281L Physical Materials I Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 380 Thermodynamics of Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 401 Materials Processing</td>
<td></td>
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<tr>
<td>MSE 430 Polymeric Materials</td>
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<tr>
<td>BY 271 Biology of Microorganisms</td>
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<tr>
<td>&amp; 271L Biology of Microorganisms Laboratory</td>
<td></td>
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<tr>
<td>BY 280 Biology of Aging</td>
<td></td>
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<tr>
<td>BY 311 Molecular Genetics</td>
<td></td>
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<tr>
<td>BY 330 Cell Biology</td>
<td></td>
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<tr>
<td>BY 362 Neurobiology</td>
<td></td>
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<tr>
<td>CH 235 Organic Chemistry I</td>
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<tr>
<td>CH 237 Organic Chemistry II</td>
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</tr>
<tr>
<td>CH 355 Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>CH 460 Fundamentals of Biochemistry</td>
<td></td>
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<tr>
<td>MA 313 Patterns, Functions and Algebraic Reasoning</td>
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<tr>
<td>MA 360 Scientific Programming</td>
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<tr>
<td>MA 361 Mathematical Modeling</td>
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<tr>
<td>MA 453 Transforms</td>
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<tr>
<td>MA 485 Probability</td>
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</tr>
<tr>
<td>PH 475 Introduction to Biophysics I</td>
<td></td>
</tr>
<tr>
<td>PH 487 Nanoscale Science and Applications</td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>62</td>
</tr>
</tbody>
</table>

1. With departmental approval. At most 3 hours of BME 494 or BME 491 may be used for elective credit.
2. Student must be enrolled in BME Honors Program.
3. Other courses may be selected as electives, but must be approved by a BME faculty advisor

Concentration in Biomechanics

Students seeking the degree of BSBME may add a concentration in Biomechanics by appropriate selection of their Mathematics/Science/Engineering Electives (3 credit hours), Engineering Elective (3 credit hours), and BME Electives (6 credit hours).
Concentration in Biomechanics

Requirements | Hours
---|---
BME 408 Advanced Biological Transport Phenomena | 3
BME 417 Engineering Analysis | 3
BME 471 Continuum Mechanics of Solids | 3
ME 464 Introduction to Finite Element Method | 3
Total Hours | 12

Concentration in Biomaterials and Tissue Engineering

Students seeking the degree of BSBME may add a concentration in Biomaterials/Tissue Engineering by appropriate selections of their Mathematics/Science/Engineering Elective (3 credit hours), Engineering Elective (3 credit hours), and BME Electives (6 credit hours).

Concentration in Biomaterials/Tissue Engineering

Requirements | Hours
---|---
Required Courses | |
BME 420 Implant-Tissue Interactions | 3
BME 435 Tissue Engineering | 3
MSE 281 Physical Materials I | 4
Elective Courses | 3
Select one of the following:
BY 311 Molecular Genetics | |
BY 330 Cell Biology | |
BY 431 Principles of DNA Technology | |
MSE 381 Physical Materials II | |
MSE 382 Mechanical Behavior of Materials | |
MSE 401 Materials Processing | |
MSE 408 Nanomaterials | |
MSE 413 Composite Materials | |
MSE 430 Polymeric Materials | |
MSE 464 Metals and Alloys | |
MSE 470 Ceramic Materials | |
MSE 484 Electronic, Magnetic, and Thermal Prop of Materials | |
PH 487 Nanoscale Science and Applications | |
Total Hours | 13

Please refer to the School of Engineering Overview for School policies related to admission, academic progress, reasonable progress toward degree, and graduation.

Curriculum for the Bachelor of Science in Biomedical Engineering (B.S.B.M.E.)

Freshman

First Term | Hours | Second Term | Hours
---|---|---|---
CH 115 & CH 116 | | 4 BY 123 | 4
EGR 110 | 1 CH 117 & CH 118 | | 4
EH 101 & EGR 111 | 1 | | 1
MA 125 | 4 EH 102 | | 3

Sophomore

First Term | Hours | Second Term | Hours
---|---|---|---
BY 210 | 3 EGR 150 | 3
EGR 265 | 4 BME 210 | 3
PH 221 & 221L | 4 CE 210 | 3
MA 260 | 3 EE 312 | 3
MSE 280 | 3 PH 222 & 222L | 4

Junior

First Term | Hours | Second Term | Hours
---|---|---|---
BME 310 | 3 BME 333 | 3
BME 312 | 3 BME 340 | 3
BME 313 | 3 BME 350 | 3
BY 409 | 4 BME 423 | 3
ME 215 | 3 Core Curriculum Area II: Humanities & Fine Art | 3
| Core Curriculum Area IV: Social & Behavioral Science | 3

Senior

First Term | Hours | Second Term | Hours
---|---|---|---
BME 498 | 3 BME 499 | 3
BME 498L | 0 BME 499L | 0
BME 401 | 1 Biomedical Engineering Elective (400 level) | 3
Math/Science/Engineering/Biomedical Engineering Elective | 3 Core Curriculum Area II: Humanities & Fine Art | 3
Math/Science/Engineering/Biomedical Engineering Elective | 3 Core Curriculum Area IV: Social & Behavioral Science | 3
Core Curriculum Area II: Humanities & Fine Art | 3 Core Curriculum Area IV: Social & Behavioral Science | 3
Biomedical Engineering Elective (400 Level) | 3

Total Hours: 128

1 Transfer students may substitute EGR 200 for EGR 110 and EGR 111.
2 May substitute MA 227 and MA 252 for EGR 265 and one Math/Science/Engineering/Biomedical Engineering Elective.
3 Students using this curriculum as a pre-health professional program (pre-med, pre-dental, or pre-optometry) may use CH 237, CH 238 or CH 460 for this elective.
4 Please refer to the Core Curriculum as specified for engineering majors.
5 Seminar may be taken during any semester.
Department of Civil, Construction, and Environmental Engineering

Chair: Fouad H. Fouad

The Department of Civil, Construction, and Environmental Engineering offers a broad-based program in civil engineering, which covers mechanics and structures, soils, surveying, transportation, water resources, environmental engineering, and construction engineering management. Computer applications are emphasized in all areas. The program is based on a strong foundation of mathematics, physical sciences, humanities, and social sciences and is supported by a series of basic courses from other engineering disciplines. The primary objective of the program is to prepare students for entry into the civil engineering profession as design engineers. The Civil, Construction, and Environmental Engineering Department has been accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org

Electives in the academic program may be selected from courses in structural engineering, construction engineering management, environmental engineering, geotechnical engineering, and transportation engineering. These courses allow students to emphasize a particular area in their undergraduate academic program. Judicious selection of these electives may be used as additional preparation for a specific design career or for entry into a specialized civil engineering certificate or engineering graduate program.

Qualified, motivated undergraduate students may also participate in the Departmental Honors Program.

Please refer to the School of Engineering overview for policies regarding admission; change of major; transfer credit; transient status; dual degree programs; reasonable progress; academic warning, probation, and suspension; reinstatement appears; and graduation requirements.

Mission

To become a department of top choice for civil engineering students, faculty and industry partners wanting a real world experience in a metropolitan setting.

Educational Objectives

The Civil, Construction and Environmental Engineering Department has developed the following educational objectives for graduates of the Civil Engineering program. Three to six years after graduation, graduates who choose to practice in the Civil Engineering field should:

• Achieve a level of technical competency that allows them to advance in engineering practice and/or research.
• Pursue lifelong learning, such as graduate study and other professional education, and professional licensure.
• Engage in service to the profession through involvement in professional societies, community activities, and educational outreach.

Experiential Learning

The Civil, Construction, and Environmental Engineering Department strongly encourages students to participate in experiential learning opportunities; such as, industry co-ops, engineering internships, and research with department faculty. These programs greatly enhance a student's education and provide the real-world experience employers look for after graduation. The School of Engineering has a dedicated staff member to assist students in finding and applying to these programs and the Civil, Construction, and Environmental Engineering Department will work with students to tailor programs of study that will allow them to participate in these programs while completing their degrees in a timely manner.

Lower Division Requirements For Civil Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
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</tr>
<tr>
<td>CH 115 &amp; CH 116 &amp; CH 117 &amp; CH 118</td>
<td>4</td>
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<tr>
<td>&amp; CH 116 &amp; General Chemistry I Laboratory</td>
<td></td>
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<tr>
<td>&amp; CH 117 General Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118 and General Chemistry II Laboratory</td>
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<tr>
<td>EE 312 Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGR 110 Introduction to Engineering I</td>
<td>2</td>
</tr>
<tr>
<td>EGR 200 or EGR 200 Introduction to Engineering Design</td>
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<tr>
<td>EGR 150 Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGR 265 Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>EH 300 Engineering Communication</td>
<td>2</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>ME 102 Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>ME 251 Introduction to Thermal Sciences</td>
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<tr>
<td>Total Hours</td>
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</table>

Major Requirements For Civil Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Engineering Courses</td>
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<tr>
<td>CE 200 Engineering Geology</td>
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</tr>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 220 Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>CE 221 Mechanics of Solids Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CE 222 Civil Engineering Materials Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CE 230 Plane Surveying &amp; Plane Surveying Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CE 236 Environmental Engineering &amp; Environmental Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CE 332 Soil Engineering &amp; Soil Engineering Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CE 337 Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CE 344 Civil Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 345 Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 360 Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CE 395 Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>CE 430 Water Supply/Drainage Design</td>
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</tr>
<tr>
<td>CE 480 Introduction to Water and Wastewater Treatment</td>
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</tr>
<tr>
<td>CE 450 Structural Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 455 Reinforced Concrete Design</td>
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</tbody>
</table>
Concentration in Sustainable Engineering Design and Construction

Students seeking the degree of BSCE may add a concentration in Sustainable Engineering and Construction by appropriate selection of their Civil Engineering Electives (400-Level) courses (9 credit hours total).

Curriculum for the Bachelor of Science in Civil Engineering (B.S.C.E.)

Freshman

First Term | Hours | Second Term | Hours |
---|---|---|---|
CH 115 & CH 116 | 4 | CH 117 & CH 118 | 4 |
EGR 110| 1 | EGR 111| 1 |
EH 101 | 3 | EH 102 | 3 |
ME 102 | 2 | MA 126 | 4 |
MA 125 | 4 | PH 221 & 221L | 4 |

Total Hours: 14

Sophomore

First Term | Hours | Second Term | Hours |
---|---|---|---|
CE 210 | 3 | CE 220 | 3 |
PH 222 | 4 | CE 236 | 3 |
& 222L | & 236L | & 236L | |
EGR 265| 2 | ME 215 | 3 |
Core Curriculum Area II: | | | 3 |
Humanities & Fine Art| 3 | Humanities & Fine Art| 3 |
EGR 150 | 3 | CE 200 | 2 |
| | CE 221 | 1 |

Total Hours: 17

Junior

First Term | Hours | Second Term | Hours |
---|---|---|---|
CE 230 & 230L | 3 | CE 222 | 1 |
CE 337 | 3 | EE 312 | 3 |
CE 332 & 332L | 4 | CE 360 | 3 |
ME 251 | 2 | CE 395 | 3 |
EH 300 | 2 | Core Curriculum Area IV: | 3 |
| | | Social & Behavioral Science| 3 |
CE 344 | 3 | CE 345 | 3 |

Total Hours: 17
## Certificate in Construction Engineering Management

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 497</td>
<td>3</td>
</tr>
</tbody>
</table>

### Engineering Electives

- Select four courses from the following:
  - CE 600 Sustainable Construction
  - CE 601 Construction Methods
  - CE 602 Construction Contracting, Bidding, and Estimating
  - CE 603 Construction Accounting and Financial Management
  - CE 604 International Construction Contracts and Law
  - CE 605 Project Management
  - CE 606 Advanced Project Management
  - CE 607 Engineering Entrepreneurship
  - CE 608 Green Building Design
  - CE 609 Advanced Topics in Engineering Law
  - CE 631 Environmental Law
  - CE 649 Engineering Liability
  - CE 658 Engineering Management
  - CE 692 CE Capstone Project

## Certificate in Environmental Engineering

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 236</td>
<td>3</td>
</tr>
</tbody>
</table>

### Engineering Electives

- Select four courses from the following:
  - CE 530 Water Supply/Drainage Design
  - CE 533 Solid and Hazardous Wastes Management
  - CE 534 Air Quality Modeling and Monitoring
  - CE 544 Civil Engineering Analysis II
  - CE 580 Introduction to Water and Wastewater Treatment
  - CE 631 Environmental Law
  - CE 632 Industrial Waste and Wastewater Treatment
  - CE 636 Stormwater Pollution Management
  - CE 638 Water and Wastewater Chemistry
  - CE 639 Sediment Sources and Controls
  - CE 640 Wastewater Treatment Engineering
  - CE 649 Engineering Liability
  - CE 658 Engineering Management
  - CE 681 Environmental Chemistry
  - CE 685 Engineering Hydrology

## Certificate in Geotechnical Engineering

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CE 332</td>
<td>4</td>
</tr>
</tbody>
</table>

### Engineering Electives

- Select courses from the following:
  - CE 526 Foundation Engineering
  - CE 544 Civil Engineering Analysis II
  - CE 649 Engineering Liability
Certificate in Structural Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Course</td>
<td></td>
</tr>
<tr>
<td>CE 360 Structural Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Engineering Electives

Select electives from the following list to earn 12 semester hours:

- Structural Analysis Electives (Minimum 3 Hours)
  - CE 516 Mechanical Vibrations
  - CE 520 Advanced Mechanics
  - CE 560 Structural Mechanics
  - CE 561 Introduction to the Finite Element Method

- Advanced Structural Analysis
  - CE 562 Advanced Structural Analysis

- Structural Dynamics
  - CE 564 Structural Dynamics

- Theory of Elasticity
  - CE 612 Theory of Elasticity

- Theory of Elastic Stability
  - CE 615 Theory of Elastic Stability

- Theory of Plates and Shells
  - CE 617 Theory of Plates and Shells

- Finite Element Methods
  - CE 663 Finite Element Methods

Structural Design Electives (Minimum 3 Hours)

- Foundation Engineering
  - CE 526 Foundation Engineering

- Design of Wood Structures
  - CE 553 Design of Wood Structures

- Design of Masonry Structures
  - CE 554 Design of Masonry Structures

- Prestressed Concrete Design
  - CE 556 Prestressed Concrete Design

- Wind and Seismic Loads
  - CE 567 Wind and Seismic Loads

- Bridge Engineering
  - CE 568 Bridge Engineering

- Advanced Structural Steel
  - CE 650 Advanced Structural Steel

- Advanced Reinforced Concrete
  - CE 655 Advanced Reinforced Concrete

Other Electives (Maximum 3 Hours)

- Hwy Materials and Construction
  - CE 542 Hwy Materials and Construction

- Concrete Technology
  - CE 557 Concrete Technology

- Engineering Liability
  - CE 649 Engineering Liability

- Engineering Management
  - CE 658 Engineering Management

1 Only one of these courses may be applied to this certificate.

Certificate in Sustainable Engineering Management

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Course</td>
<td></td>
</tr>
<tr>
<td>CE 497 Construction Engineering Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses

- Sustainable Construction
  - CE 600 Sustainable Construction

- Construction Contracting, Bidding, and Estimating
  - CE 602 Construction Contracting, Bidding, and Estimating

- Green Building Design
  - CE 608 Green Building Design

- International Construction Contracts and Law
  - CE 604 International Construction Contracts and Law

- Advanced Topics in Engineering Law
  - CE 609 Advanced Topics in Engineering Law

Certificate in Transportation Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Course</td>
<td></td>
</tr>
<tr>
<td>CE 345 Transportation Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Engineering Electives

Select courses from the following:

- CE 543 Pavement Design & Construction
- CE 544 Civil Engineering Analysis II
- CE 568 Bridge Engineering
- CE 622 Traffic Flow Theory
- CE 623 Non-Motorized Transportation Design and Planning
- CE 624 Simulation Models for Transportation Applications
- CE 625 Intelligent Transportation Systems
- CE 646 Traffic Engineering Operations
- CE 648 Urban and Transportation Planning
- CE 649 Engineering Liability

1 Only one of these courses may be applied to this certificate.

Department of Electrical and Computer Engineering

Chair: Murat M. Tanik, Ph.D.

The Electrical Engineering program in the Department of Electrical and Computer Engineering at UAB embodies a curriculum of 128 semester hours that is accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org. In addition to courses in pre-engineering, mathematics, calculus-based physics, chemistry, and the humanities/social sciences, students take a core of fundamental engineering coursework outside of electrical engineering, a core of courses in the breadth of electrical engineering, and electrical engineering elective courses. A bachelor's degree in electrical engineering (B.S.E.E.) can provide the foundation that a student will need in any of the areas of electrical engineering, including advanced analog and digital electronics, microprocessor applications, biomedical instrumentation, digital computer systems, software systems, electric utility power systems, industrial power systems, digital control, industrial electronics, and machinery control.

Each student must complete a senior design team project that comprises three (EE 497 Team Design Project) or six (EE 498 Team Design Project I and EE 499 Team Design Project II) semester hours of coursework.

Vision

The Vision of the department is to be a nationally recognized Department of Electrical and Computer Engineering: a first choice for undergraduate and graduate education.

Mission

The Mission of the Department of Electrical and Computer Engineering is to prepare graduates to be immediately productive and able to adapt to a rapidly changing environment while also creating and applying knowledge for the benefit of Birmingham, the state, and beyond.

Degree offered: B.S.E.E.

Director: David Green

Phone: (205) 934-8440

Email: dgreen@uab.edu

Web Site: https://www.uab.edu/engineering/ece/undergrad (https://www.uab.edu/engineering/home/about-ece)
**Electrical Engineering Program Objectives**

The Electrical Engineering undergraduate program prepares graduates to:
- Succeed in a career in electrical engineering or in further education.
- Approach problem solving with an engineering mind set.
- Grow professionally.

**Lower Division Requirements For Electrical Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>EGR 150 Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>EE 314 Electrical Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EGR 110 Introduction to Engineering I &amp; EGR 111 and Introduction to Engineering II or EGR 200 Introduction to Engineering Design</td>
<td>2</td>
</tr>
<tr>
<td>EGR 265 Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>ME 102 Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>ME 251 Introduction to Thermal Sciences</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

**Major Requirements For Electrical Engineering**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Electrical Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>EE 210 Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>EE 233 Engineering Programming Methods</td>
<td>3</td>
</tr>
<tr>
<td>EE 254 Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>EE 300 Engineering Problem Solving II</td>
<td>3</td>
</tr>
<tr>
<td>EE 316 Electrical Networks &amp; 316L and Electrical Networks Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 318 Methods of System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EE 333 Engineering Programming Using Objects</td>
<td>3</td>
</tr>
<tr>
<td>EE 337 Introduction to Microprocessors &amp; 337L and Introduction to Microprocessors Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 341 Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>EE 351 Electronics &amp; 351L and Electronics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 361 Machinery I &amp; 361L and Machinery I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EE 421 Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 426 Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 431 Analog Integrated Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EE 485 Engineering Operations</td>
<td>3</td>
</tr>
<tr>
<td>EE 497 Team Design Project</td>
<td>3</td>
</tr>
<tr>
<td>or EE 499 Team Design Project II</td>
<td></td>
</tr>
<tr>
<td><strong>Twelve hours of EE 400-level electives</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>65</strong></td>
</tr>
</tbody>
</table>

Please refer to the School of Engineering overview for policies regarding admission; change of major; transfer credit; transient status; dual degree programs; reasonable progress; academic warning, probation, and suspension; reinstatement appeals; and graduation requirements.

**Department of Electrical and Computer Engineering Residency Requirement**

Students are required to take the following at UAB:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 421 Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 426 Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 431 Analog Integrated Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EE 497 Team Design Project</td>
<td>3</td>
</tr>
<tr>
<td>or EE 499 Team Design Project II</td>
<td></td>
</tr>
<tr>
<td><strong>Twelve hours of EE 400-level electives</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

**Curriculum for the Bachelor of Science in Electrical Engineering (B.S.E.E.)**

**Freshman**

<table>
<thead>
<tr>
<th>Freshman First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; CH 116</td>
<td>4</td>
<td>3 EGR 111</td>
<td>1</td>
</tr>
<tr>
<td>EH 101</td>
<td>1</td>
<td>1 EH 102</td>
<td>3</td>
</tr>
<tr>
<td>EGR 110</td>
<td>3</td>
<td>MA 125</td>
<td>4</td>
</tr>
</tbody>
</table>

1. These courses are recommended for students who plan to pursue graduate study in electrical engineering or related fields.
how to select the optimum material and predict its behavior under various environmental and service conditions, and how to alter this behavior through materials design, research, and development. Materials Engineers are employed in every major industry, including aerospace, chemical, automotive, metals casting, biomedical, and microelectronics.

The materials engineering program at UAB has a curriculum of 128 semester credit hours that has been continuously accredited since 1971 by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org. In addition to courses in mathematics, calculus-based physics, chemistry, and the humanities/social sciences, students take a core of fundamental engineering course work and a sequence of materials engineering courses. The required materials engineering courses address ceramics, polymers, composite materials, and metals. They emphasize the relationships among properties, structure, processing, and performance. Materials engineering elective courses are also offered to introduce students to leading-edge materials engineering topics. In addition to the general materials engineering program, students can specialize in Biomaterials, Polymer Matrix Composites or Metallurgy by proper selection of their electives (see Concentrations).

The curriculum prepares graduates to directly enter the professional practice of materials science and engineering, to pursue graduate studies in materials science and engineering, or enter a professional school, such as medicine or dentistry. The department has very active research programs in metal casting and composite materials.

Please refer to the School of Engineering overview for policies regarding admission; change of major; transfer credit; transient status; dual degree programs; reasonable progress; academic warning, probation, and suspension; reinstatement appeals; and graduation requirements.

The department also offers courses of study leading to the Master of Science and Doctor of Philosophy degrees in materials engineering. These programs are described in the UAB Graduate School Catalog.

Vision

The Vision of the Department of Materials Science and Engineering is to be an internationally recognized research-oriented department – a first choice for undergraduate and graduate education.

Mission

The Mission of the Department of Materials Science and Engineering is to excel in research for the benefit of society while educating students at all levels to be immediately productive.

Educational Objectives

Our Materials Engineering undergraduate program will produce functioning professionals who:

- Advance in materials engineering or related professional positions.
- Continue to develop intellectually and professionally.

Lower Division Requirements For Materials Engineering

The following requirements are in addition to the School of Engineering core requirements.

Requirements

<table>
<thead>
<tr>
<th>General Chemistry Requirement</th>
<th>Hours</th>
</tr>
</thead>
</table>

1. Only first term freshman take EGR 110/ EGR 111. All others take EGR 200 (a 2-hour course).
2. Curriculum change in 2008: Students can substitute MA 227 and MA 252 for EGR 256 and EE 254.
4. Must be chosen from the approved list of electives.

Department of Materials Science and Engineering

Interim Chair: Selvum Brian Pillay
Undergraduate Program Director: Robin D. Foley

Materials engineering involves the development, production, modification, and application of engineering materials to meet the specific needs of society. It is based on an understanding of the structures and forces that control the engineering properties of metals, ceramics, polymers, and composites. Students learn how to control the properties of materials, how to select the optimum material and predict its behavior under
### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116</td>
<td>and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 118</td>
<td>and General Chemistry II Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

### Required Materials Engineering Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 210</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 220</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>CE 344</td>
<td>Civil Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>EE 312</td>
<td>Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGR 110</td>
<td>Introduction to Engineering I</td>
<td>2</td>
</tr>
<tr>
<td>&amp; EGR 111</td>
<td>Introduction to Engineering II</td>
<td></td>
</tr>
<tr>
<td>or EGR 200</td>
<td>Introduction to Engineering Design</td>
<td></td>
</tr>
<tr>
<td>EGR 150</td>
<td>Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGR 265</td>
<td>Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>ME 102</td>
<td>Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>ME 251</td>
<td>Introduction to Thermal Sciences</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Hours**: 37

### Major Requirements For Materials Engineering

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Materials Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>MSE 280 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 281 Physical Materials I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 281L and Physical Materials I Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 380 Thermodynamics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 381 Physical Materials II</td>
<td>3</td>
</tr>
<tr>
<td>MSE 382 Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 401 Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>MSE 413 Composite Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 430 Polymeric Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 464 Metals and Alloys</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 464L and Metals and Alloys Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 465 Characterization of Materials</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 465L and Characterization of Materials Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 470 Ceramic Materials</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 470L and Ceramic Materials Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 498 Capstone Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>MSE 499 Capstone Design Project II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Materials Engineering Elective**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 402</td>
<td>Frontiers of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 405</td>
<td>Frontiers of Automotive Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 408</td>
<td>Nanomaterials</td>
<td></td>
</tr>
<tr>
<td>MSE 409</td>
<td>Principles of Metal Casting</td>
<td></td>
</tr>
<tr>
<td>&amp; 409L</td>
<td>and Principles of Metal Casting Laboratory</td>
<td></td>
</tr>
<tr>
<td>MSE 433</td>
<td>Nondestructive Evaluation of Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 462</td>
<td>Composites Manufacturing</td>
<td></td>
</tr>
<tr>
<td>MSE 474</td>
<td>Metals and Alloys II</td>
<td></td>
</tr>
<tr>
<td>MSE 484</td>
<td>Electronic, Magnetic, and Thermal Prop of Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 490</td>
<td>Special Topics in (Area) (minimum of 3 hours)</td>
<td></td>
</tr>
<tr>
<td>MSE 491</td>
<td>Individual Study in (Area) (minimum of 3 hours )</td>
<td></td>
</tr>
</tbody>
</table>

Completion of Departmental Honors Program satisfies three credits of either a Materials Engineering Elective or an Engineering/Mathematics/Science Elective.

**Science/Mathematics Elective**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 405</td>
<td>Frontiers of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MSE 409</td>
<td>Principles of Metal Casting</td>
<td></td>
</tr>
<tr>
<td>MSE 433</td>
<td>Nondestructive Evaluation of Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 474</td>
<td>Metals and Alloys II</td>
<td></td>
</tr>
</tbody>
</table>

Choose three hours of Science/Mathematics courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Biology (BY) courses numbered BY 115 and above.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Any Chemistry (CH) courses at the CH 200 level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV 108</td>
<td>Human Population and the Earth’s Environment</td>
<td></td>
</tr>
<tr>
<td>Any Physics (PH) courses above PH 222.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 260</td>
<td>Introduction to Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MA 360</td>
<td>Scientific Programming</td>
<td></td>
</tr>
<tr>
<td>MA 361</td>
<td>Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>Any Mathematics (MA) courses MA 434 and above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Engineering/Mathematics/Science Electives

Select six hours from MSE, other engineering, BY, MA, CH, or PH.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Biology (BY) courses BY115 or above not already taken as a major requirement.</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Any Chemistry (CH) courses at CH 200 level or above not already taken as a major requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV 108</td>
<td>Human Population and the Earth’s Environment</td>
<td></td>
</tr>
<tr>
<td>Any Physics (PH) courses above PH 222.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 260</td>
<td>Introduction to Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MA 360</td>
<td>Scientific Programming</td>
<td></td>
</tr>
<tr>
<td>MA 361</td>
<td>Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>Any Mathematics (MA) courses MA 434 and above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Any engineering course not required in the major except CE 120, EE 305, EGR 125, EGR 301, EGR 499, ME 101, ME 241, ME 301, ME 302, or MSE 350. Completion of Departmental Honors Program satisfies three credits of an Engineering/Mathematics/Science Elective.

**Total Hours**: 55

### Concentration in Biomaterials

Students seeking the degree of BSMtE may add a concentration in Biomaterials by appropriate selection of their MSE Elective and Science/Mathematics/Engineering Electives (9 credit hours total).

**Concentration in Biomaterials**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 311</td>
<td>Biomaterials for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>BME 435</td>
<td>Tissue Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BME 420</td>
<td>Implant-Tissue Interactions</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 9

### Concentration in Metallurgy

Students seeking the degree of BSMtE may add a concentration in Metallurgy by appropriate selection of their MSE Elective and Science/Mathematics/Engineering Electives (9 credit hours total).

**Concentration in Metallurgy**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 405</td>
<td>Frontiers of Automotive Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 409</td>
<td>Principles of Metal Casting</td>
<td></td>
</tr>
<tr>
<td>MSE 433</td>
<td>Nondestructive Evaluation of Materials</td>
<td></td>
</tr>
<tr>
<td>MSE 474</td>
<td>Metals and Alloys II</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**: 9
Concentration in Polymer Matrix Composites

Students seeking the degree of BSMtE may add a concentration of Polymer Matrix Composites by appropriate selection of their MSE Elective and Science/Mathematics/Engineering Electives (10 credit hours total). CH 235/CH 236 may be used as the Science/Mathematics Elective instead of one of the Science/Mathematics/Engineering Electives.

Concentration in Polymer Matrix Composites

Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 235 Organic Chemistry I</td>
</tr>
<tr>
<td>CH 236 Organic Chemistry I Laboratory</td>
</tr>
</tbody>
</table>

Elective Courses

Select two from the following:

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 405 Frontiers of Automotive Materials</td>
</tr>
<tr>
<td>MSE 408 Nanomaterials</td>
</tr>
<tr>
<td>MSE 433 Nondestructive Evaluation of Materials</td>
</tr>
<tr>
<td>MSE 462 Composites Manufacturing</td>
</tr>
</tbody>
</table>

Total Hours: 10

Curriculum for the Bachelor of Science in Materials Engineering (BSMtE)

Freshman

<table>
<thead>
<tr>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 115 &amp; CH 116</td>
<td>4 EGR 111¹</td>
</tr>
<tr>
<td>EGR 110¹</td>
<td>1 EH 102</td>
</tr>
<tr>
<td>MA 125</td>
<td>4 CH 117</td>
</tr>
<tr>
<td>&amp; CH 118</td>
<td></td>
</tr>
<tr>
<td>ME 102</td>
<td>2 PH 221</td>
</tr>
<tr>
<td>&amp; 221L</td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
<td>3 MA 126</td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 210</td>
<td>3 CE 220</td>
</tr>
<tr>
<td>EGR 265²</td>
<td>4 EE 312</td>
</tr>
<tr>
<td>MSE 280</td>
<td>3 ME 251</td>
</tr>
<tr>
<td>PH 222 &amp; 222L</td>
<td>4 MSE 281 &amp; 281L</td>
</tr>
<tr>
<td>Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science³</td>
<td>3 EGR 150</td>
</tr>
<tr>
<td>Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science³</td>
<td></td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 381</td>
<td>3 MSE 470 &amp; 470L</td>
</tr>
<tr>
<td>MSE 380</td>
<td>3 Science/Mathematics Elective⁵</td>
</tr>
<tr>
<td>MSE 465 &amp; 465L</td>
<td>4 MSE 464 &amp; 464L</td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>Hours First Term</th>
<th>Hours Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 498</td>
<td>3 MSE 499</td>
</tr>
<tr>
<td>Science/Math/Engineering Elective⁴</td>
<td>3 Science/Math/Engineering Elective⁵</td>
</tr>
<tr>
<td>MSE 413</td>
<td>3 Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Total credit hours: 128</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Transfer students may substitute EGR 200 for EGR 110/EGR 111</td>
</tr>
<tr>
<td>2</td>
<td>Students may also take MA 227 and MA 252 for Engineering Problem Solving and either the SCI/MA or one SCI/MA/EGR elective.</td>
</tr>
<tr>
<td>3</td>
<td>Please refer to the Core Curriculum as specified for Engineering majors.</td>
</tr>
<tr>
<td>4</td>
<td>Students may substitute EE 300 Engineering Problem Solving II or PUH 250 Biostatistics for CE 344 Civil Engineering Analysis I if there are scheduling conflicts.</td>
</tr>
<tr>
<td>5</td>
<td>Completion of Departmental Honors Program satisfies three credits of either a Materials Engineering Elective or an Engineering/Mathematics/Science Elective.</td>
</tr>
</tbody>
</table>

Department of Mechanical Engineering

Chair: David L. Littlefield

Mechanical engineering is a broad-based discipline that embraces two major topic areas—mechanical systems and thermal systems. With an understanding of the phenomena associated with these topics, mechanical engineers conceive and design a wide variety of devices, machines, and systems to meet the needs and desires of a modern economy. Mechanical engineers also engage in other engineering functions such as applied research, development, and management. During the next decade and beyond, mechanical engineers will have a primary role in addressing the problems relating to manufacturing, productivity and safety in the workplace, supply and efficient utilization of energy, transportation, enhancement of the environment, and human rehabilitation.

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org. The Mechanical Engineering Program embodies a curriculum of 128 semester credit hours. In addition to courses in pre-engineering, mathematics, calculus-based physics, chemistry, humanities, and social sciences, the mechanical engineering curriculum also includes a core of fundamental engineering coursework and advanced courses in thermodynamics, fluid mechanics, heat transfer, mechanics of machinery, and mechanical
design. Laboratory experiences are provided in each area to illustrate the application of theory in engineering practice. During the senior year, the curriculum provides for electives that allow specializations in the areas of mechanical systems or energy systems or for further exposure in both areas. With additional coursework, the mechanical engineering program can also be utilized as a pre-health curriculum.

Please refer to the School of Engineering overview for policies regarding admission; change of major; transfer credit; transient status; dual degree programs; reasonable progress; academic warning, probation, and suspension; reinstatement appeals; and graduation requirements.

Vision
To be a nationally and internationally recognized research-oriented mechanical engineering department – a first choice for undergraduate and graduate education.

Mission
To prepare students to be immediately productive and able to adapt to and lead in a rapidly changing environment and to create and apply knowledge for the benefit of society.

Program Educational Objectives
The Mechanical Engineering Undergraduate Program will prepare graduates to:
• Succeed in Engineering and/or related professional positions.
• Continue to develop professionally.

Lower Division Requirements For Mechanical Engineering
A C or better is required in any course that is a prerequisite to another course in the ME curriculum.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry Requirement</td>
<td></td>
</tr>
<tr>
<td>CH 115 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CH 116 and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CH 117 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>EGR 150 Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 220 Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>CE 221 Mechanics of Solids Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CE 395 Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>EE 312 Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGR 265 Math Tools for Engineering Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>EGR 110 Introduction to Engineering I</td>
<td>2</td>
</tr>
<tr>
<td>&amp; EGR 111 and Introduction to Engineering II</td>
<td></td>
</tr>
<tr>
<td>or EGR 200 Introduction to Engineering Design</td>
<td></td>
</tr>
<tr>
<td>MA 126 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>ME 102 Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>ME 215 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MSE 280 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>Math/Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Course must be approved by ME Undergraduate Director.</td>
<td>3-4</td>
</tr>
<tr>
<td>MA 180 Introduction to Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 47-48

Major Requirements For Mechanical Engineering
A C or better is required in any course that is a pre-requisite to another course in the ME curriculum.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mechanical Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>ME 241 Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>ME 242 Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>ME 321 Introduction to Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 322 Introduction to Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ME 360 Introduction to Mechatronic Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 361 Thermo-Fluids Systems</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 361L Thermo-Fluids Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>ME 364 Linear Algebra and Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>ME 370 Kinematics and Dynamics of Machinary</td>
<td>3</td>
</tr>
<tr>
<td>ME 371 Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 401 Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>or ME 405 Manufacturing Processes</td>
<td></td>
</tr>
<tr>
<td>ME 461 Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 461L Mechanical Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>ME 498 Capstone Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>ME 499 Capstone Design Project II</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Engineering Electives</td>
<td></td>
</tr>
<tr>
<td>Three Mechanical Engineering (ME) electives: one with computer-aided engineering content, one thermal fluids elective, and one mechanical systems elective.</td>
<td>9</td>
</tr>
<tr>
<td>Computer Aided Engineering Courses</td>
<td></td>
</tr>
<tr>
<td>ME 421 Introduction to Computational Fluid Dynamics Basics</td>
<td></td>
</tr>
<tr>
<td>ME 464 Introduction to Finite Element Method</td>
<td></td>
</tr>
<tr>
<td>Thermal Fluids Courses</td>
<td></td>
</tr>
<tr>
<td>ME 411 Intermediate Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>ME 421 Introduction to Computational Fluid Dynamics Basics</td>
<td></td>
</tr>
<tr>
<td>ME 445 Combustion</td>
<td></td>
</tr>
<tr>
<td>ME 448 Internal Combustion Engines</td>
<td></td>
</tr>
<tr>
<td>ME 449 Power Generation</td>
<td></td>
</tr>
<tr>
<td>ME 454 Heating, Ventilating and Air Conditioning</td>
<td></td>
</tr>
<tr>
<td>ME 455 Thermal-Fluid Systems Design</td>
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</tr>
<tr>
<td>Mechanical Systems Courses</td>
<td></td>
</tr>
<tr>
<td>ME 430 Vehicular Dynamics</td>
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</table>
### Curriculum for the Bachelor of Science in Mechanical Engineering

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Freshman</td>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EGR 110&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EH 101</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MA 125</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CH 115</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ME 102</td>
<td>4</td>
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<tr>
<td></td>
<td>Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 EGR 150</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 EGR 111&lt;sup&gt;1&lt;/sup&gt;</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4 EH 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 MA 126</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2 PH 221 &amp; 221L</td>
<td>4</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>48</strong></td>
</tr>
<tr>
<td>Sophomore</td>
<td><strong>First Term</strong></td>
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</tr>
<tr>
<td></td>
<td>CE 210</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EGR 265&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ME 241</td>
<td>1</td>
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<td></td>
<td>PH 222</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CH 117</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 ME 215</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 CE 220</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 CE 221</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 ME 242</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td>Junior</td>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ME 321</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ME 364</td>
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<td>ME 370</td>
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<td>MSE 280</td>
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<td></td>
<td>Core Curriculum Area II or IV: Humanities &amp; Fine Art or Social &amp; Behavioral Science&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 ME 322</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 ME 360</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 ME 361 &amp; 361L</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 ME 371</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 EE 312</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Senior</td>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSE 401 or ME 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ME 461 &amp; 461L</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ME 498</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Notes:
1. Transfer students may substitute EGR 200 for EGR 110/EGR 111.
2. Please refer to the Core Curriculum as specified for Engineering majors.
3. Students may also take MA 227 and MA 252 instead of EGR 265.
4. Course must be approved by ME Undergraduate Program Director.
5. Mechanical systems electives include: ME 430, ME 464, and ME 475.
6. Thermal fluids electives include: ME 411, ME 421, ME 445, ME 448, ME 449, ME 454, and ME 455.
7. Electives with computer-aided engineering content include: ME 421 and ME 464

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### School of Health Professions

**Dean:** Harold P. Jones, Ph.D.

**Associate Dean:** Donna J. Slovensky, Ph.D.

The School of Health Professions delivers educational programs to prepare health personnel who will improve the services in health care and the systems through which these services are provided. In keeping with the mission of the University of Alabama at Birmingham, the resources and programs of the school are dedicated to excellence in teaching, research, and scholarly activity and to service to the institution, the community, and the professions represented by programs of the school.

Degree options in the School of Health Professions include undergraduate, master’s, and doctoral programs sponsored by five academic departments – Clinical and Diagnostic Sciences, Health Services Administration, Nutrition Sciences, Occupational Therapy, and Physical Therapy. In addition, minors, certificates, and post-doctoral fellowships are available in some specialized areas. The School sponsors more than 25 degree and certificate options, all of which require students to apply for and be accepted to the specific degree or certificate program.

The School of Health Professions is committed to the practice of ethical standards of conduct. School policies, procedures, and regulations reflect this commitment and are in compliance with those of the University of Alabama at Birmingham. To ensure continued practice of ethical standards, the administration and the standing committees of the school (Faculty Affairs, Academic Affairs, Student Affairs) regularly review school policies and procedures. All research endeavors are in compliance with policies of the UAB Institutional Review Board.

### SHP Admissions

Entrance requirements for the individual educational programs of SHP vary. Persons desiring admission to a particular program should consult the appropriate section of the University Catalogs for specific entrance requirements, application process, and program information. Students
who attend an institution other than UAB are encouraged to seek academic advisement from the intended program as early as possible to plan for completion of program prerequisites.

Application for admission to UAB to complete program entrance or pre-professional requirements at UAB may be made to the Office of Undergraduate Admissions (http://www.uab.edu/students/undergraduate-admissions). Admission to UAB does not guarantee admission to the professional phase of any SHP program.

The School of Health Professions welcomes applications from all individuals who are prepared for the programs offered. All applicants must offer acceptable evidence of ability and intent to meet the academic standards specified by the particular program into which admission is desired. In addition, certain immunizations are required prior to enrollment; see UAB Student Health and Insurance Programs and UAB Immunization Policy. Accepted students are subject to background check and drug screen requirements. Applicants are considered regardless of race, color, religion, gender, sexual orientation, national origin, disability unrelated to program performance, disabled veteran status, or Vietnam era veteran status (see UAB Equal Opportunity Policy). Persons who have not yet decided upon a specific health career may obtain information from the SHP Office of Student Recruitment, Engagement, and Success, School of Health Professions Building, Room 230, 1705 University Boulevard; telephone: (205) 934-4195.

SHP Mission, Vision, Values

The mission of the School of Health Professions is “To improve health care through teaching, research, and translation of discoveries into practice in partnership with the UAB community.” The School vision is, “To be recognized as the leading school of health professions – shaping the future of healthcare.” Fulfilling the mission requires faculty and staff to embrace the following organizational values:

- Accountability
- Collaboration/Cooperation
- Diversity
- Excellence
- Innovation/Creativity
- Integrity/Ethical behavior
- Open communication
- Professional behavior

SHP First Year Experience

All freshmen admitted to the university are required to complete a first year experience (FYE) course. The FYE sponsored by SHP, HRP 101 Experience the Univ Transition, is designed to ease the transition between high school and university experiences and to prepare students for success in health professions majors. The course is delivered in a blended seminar/online format. Students interact with faculty, advisers, and other students to learn academic skills and personal lifestyle management tactics to make their freshman experience positive and academically rewarding. Social interaction and engagement in the UAB community are key goals as well.

Core Curriculum

All SHP majors are required to comply with the UAB core curriculum for a baccalaureate degree. However, most professional curricula in the school include specific prerequisite coursework that should be considered in making choices about options within the core curriculum. Students are strongly encouraged to make early contact with academic advisers in the School of Health Professions to plan their course schedules to meet the dual requirements of the core curriculum and the requirements of their chosen major. The courses identified in Area V of the core curriculum (Elective and Pre-professional Credits) differ by major, and are subject to change as programs respond to changes in workforce requirements. Students should work closely with their academic advisers to plan their programs of study during the freshman and sophomore years.

School-Wide Core / Capstone

The School of Health Professions does not specify a common core for all programs. Students must comply with the UAB core curriculum and the degree requirements for their chosen major. All SHP programs include capstone experiences, either a supervised practicum, a didactic course, or a combination of both.

University Requirements

In order to receive a degree at UAB, a student must have a minimum 120 semester hours of acceptable credit.

Interdisciplinary Majors / Minors

Interdisciplinary majors are not offered by the School of Health Professions. Students may elect to pursue any minor available at UAB in addition to their major, but minor study is not required. Several minor options are available in the School of Health Professions.

Minor Requirements for Biomedical Sciences

The minor in Biomedical Sciences requires completion of 18 semester hours of coursework; including 12 hours of required BMD courses and 6 elective hours. All courses (including prerequisites) must be completed with a grade of C or better. Students must apply to the Biomedical Sciences program for admission to the minor.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMD 315</td>
<td>4</td>
</tr>
<tr>
<td>BMD 317</td>
<td>4</td>
</tr>
<tr>
<td>BMD 420</td>
<td>4</td>
</tr>
<tr>
<td>Choose 6 Semester Hours of BMD/CDS Elective Courses</td>
<td>6</td>
</tr>
<tr>
<td>BMD 300</td>
<td>Laboratory Techniques in Biotechnology I</td>
</tr>
<tr>
<td>BMD 310</td>
<td>Clinical Anatomy and Histology</td>
</tr>
<tr>
<td>BMD 400</td>
<td>Laboratory Techniques in Biotechnology II</td>
</tr>
<tr>
<td>CDS 400</td>
<td>Fundamentals of Phlebotomy and Body Fluid Collection</td>
</tr>
<tr>
<td>CDS 405</td>
<td>Survival Spanish for Health Professionals</td>
</tr>
<tr>
<td>CDS 420</td>
<td>Competencies in Genetics for Health Professions</td>
</tr>
<tr>
<td>CDS 425</td>
<td>First Aid and Healthcare Provider CPR and AED Course</td>
</tr>
<tr>
<td>CDS 450</td>
<td>Introduction to Medical History Taking and Physical Examination</td>
</tr>
</tbody>
</table>

Total Hours: 18

Minor Requirements for Clinical Coding and Reimbursement

The Clinical Coding and Reimbursement minor requires completion of 24 semester hours of course work. Students must contact the Health Care
Management program office for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

**Minor Requirements for Nutrition Sciences**

The Department of Nutrition Sciences offers a minor option for undergraduate students matriculating in programs in the School of Health Professions. Interested students from other schools may be admitted upon approval from the NTR program director. The Nutrition minor requires completion of 18 semester hours of course work.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>NTR 232 Lifecycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 320 Nutrition and the Consumer</td>
<td>3</td>
</tr>
<tr>
<td>NTR 330 Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NTR 420 Nutritional Genetics</td>
<td>3</td>
</tr>
<tr>
<td>NTR 421 Nutrition Assessment</td>
<td></td>
</tr>
<tr>
<td>NTR 421 and the Nutrition Care Process</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 18

**School of Health Professions Honors Program**

The School of Health Professions Honors Program provides opportunities for students in School of Health Professions degree programs to develop leadership and research skills to prepare for careers in health care or for graduate and professional study in the health professions. Students participate in two semester credits of interdisciplinary seminars and four semester credits in honors projects under the direction of a faculty mentor. Projects may involve research, service learning, or leadership activities. The student’s project, whether scholarly, service, or leadership, is presented publicly in an appropriate professional forum. A limited number of students are accepted into the Honors Program each year. Admission criteria include a 3.25 GPA, recommendation by the program director of the student’s major, and a letter of support from their faculty mentor. Students who successfully complete the program graduate with School Honors.

**Clinical and Diagnostic Sciences**

The Department of Clinical and Diagnostic Sciences sponsors the B.S. in Biomedical Sciences. Undergraduate degrees in Medical Technology and Nuclear Medicine ended in 2016. Students interested in these degrees should contact the Department to discuss graduate degree options, which are available for both Laboratory Science and Nuclear Medicine.

**School of Health Professions Honors Program**

The School of Health Professions Honors Program provides opportunities for students in School of Health Professions degree programs to develop leadership and research skills to prepare for careers in health care or for graduate and professional study in the health professions. Students participate in two semester credits of interdisciplinary seminars and four semester credits in honors projects under the direction of a faculty mentor. Projects may involve research, service learning, or leadership activities. The student’s project, whether scholarly, service, or leadership, is presented publicly in an appropriate professional forum. A limited number of students are accepted into the Honors Program each year. Admission criteria include a 3.25 GPA, recommendation by the program director of the student’s major, and a letter of support from their faculty mentor. Students who successfully complete the program graduate with School Honors.

**Biomedical Sciences**

**Program Director**
The B.S. in Biomedical Sciences program curriculum is designed to prepare students for entry into the biomedical science workforce or for graduate and professional study in the health professions. Many of the prerequisites for admission to identified graduate programs can be incorporated into the student's program of study. This allows students to create a tailored undergraduate educational experience to prepare for further study in an area of choice such as physician assistant studies, medicine, dentistry, optometry, physical therapy, biotechnology, clinical laboratory science, genetic counseling, and many more.

Admission Requirements

Admission options are based on the student's previous academic work and personal interests. Students intending to enroll in the B.S. in Biomedical Sciences program must meet all UAB undergraduate admission and academic requirements. The following additional requirements also apply and must be met prior to acceptance into the Biomedical Sciences program.

1. Program Admission from High School
   Must be a graduate of an accredited high school with a grade point average of a 2.75 or higher on a 4.0 scale for admission. Achieved an ACT Composite Score of 22 or higher. Must place in College English 101 or higher and College Math 105 or higher. Must meet all UAB undergraduate admission and academic requirements. If accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service. If accepted, a background check and drug screening will be required at admission and may be required again prior to any practicum or lab placement.

2. Program Admission from Community College or University, including UAB
   Must meet all UAB undergraduate admission and academic requirements. If accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service. Must hold a 2.75 or higher Overall GPA on a 4.0 scale for admission to the Biomedical Sciences Program. If accepted, a background check and drug screening will be required at admission and may be required again prior to any practicum or lab placement.

3. Other Biomedical Sciences Program Requirements
   Grades of C or better are required for any Biomedical Sciences curriculum requirements. A minimum of 2.75 Overall GPA and 2.00 UAB institutional GPA must be maintained to remain enrolled in the B.S. in Biomedical Sciences program.

Application Procedure

Applicants are accepted at any time, and students may be enrolled during any term. Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

• Completed UAB undergraduate application form, including SHP as the school, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request using the online form available on BlazerNET (https://www.uab.edu/blazernet)).

• Official transcripts from each college or university attended

Recommended Courses Core Curriculum

Students, in consultation with their academic advisor, should sequence requirements to meet any stated prerequisite requirements for specific courses in their curriculum, including UAB Core Curriculum requirements stated in this catalog. Although the courses listed below are recommendations, students are required to earn a satisfactory grade in MA 106 or MA 125 for the major.

Area II (non-Literature option): CMST 101
Area III Mathematics: MA 106 or MA 125
Area IV non-History: PY 101 or PY 212

Contact for additional information:
B.S. in Biomedical Sciences Program (BMD) Program
School of Health Professions Building
University of Alabama at Birmingham
1705 University Boulevard
Telephone: (205) 996-4721
Email: bmd@uab.edu (askCDS@uab.edu)
Web address: http://www.uab.edu/shp/cds/biomedical-sciences

Major Requirements for Bachelor of Science in Biomedical Sciences

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
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</tr>
<tr>
<td>HRP 101</td>
<td>Experience the Univ Transition</td>
</tr>
<tr>
<td>Chemistry Requirements</td>
<td></td>
</tr>
<tr>
<td>CH 115</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CH 116</td>
<td>General Chemistry I Laboratory</td>
</tr>
<tr>
<td>or CH 114</td>
<td>General Chemistry I Laboratory (Honors)</td>
</tr>
<tr>
<td>CH 117</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>or CH 118</td>
<td>General Chemistry II Laboratory</td>
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<tr>
<td>or CH 119</td>
<td>General Chemistry II Laboratory (Honors)</td>
</tr>
<tr>
<td>CH 235</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CH 235R</td>
<td>Organic Chemistry I Recitation</td>
</tr>
<tr>
<td>CH 236</td>
<td>Organic Chemistry I Laboratory</td>
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<tr>
<td>or CH 234</td>
<td>Organic Chemistry I Laboratory (Honors)</td>
</tr>
<tr>
<td>CH 237</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CH 237R</td>
<td>Organic Chemistry II Recitation</td>
</tr>
<tr>
<td>CH 238</td>
<td>Organic Chemistry II Laboratory</td>
</tr>
<tr>
<td>or CH 239</td>
<td>Organic Chemistry II Laboratory (Honors)</td>
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<tr>
<td>Nutrition Requirement</td>
<td></td>
</tr>
<tr>
<td>NTR 222</td>
<td>Nutrition and Health</td>
</tr>
<tr>
<td>CDS Requirement</td>
<td></td>
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<tr>
<td>CDS 420</td>
<td>Competencies in Genetics for Health Professions</td>
</tr>
<tr>
<td>Statistics Requirement</td>
<td></td>
</tr>
<tr>
<td>MA 180</td>
<td>Introduction to Statistics</td>
</tr>
<tr>
<td>QM 214</td>
<td>Quantitative Analysis I</td>
</tr>
<tr>
<td>PUH 250</td>
<td>Biostatistics</td>
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<tr>
<td>HCM 360</td>
<td>Statistics for Managers</td>
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</table>
Approved Statistics course

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CMST 101</td>
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<tr>
<td>BMD 320</td>
<td>4</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3</td>
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</tbody>
</table>

**Biomedical Science Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMD 475</td>
<td>3</td>
</tr>
<tr>
<td>BMD 430</td>
<td>3</td>
</tr>
<tr>
<td>BMD 420</td>
<td>3</td>
</tr>
<tr>
<td>BMD 410</td>
<td>3</td>
</tr>
<tr>
<td>BMD Elective</td>
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</tbody>
</table>

**Total Hours**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-20</td>
</tr>
</tbody>
</table>

1. Or equivalent, University approved FYE course.

2. Please see BMD advisor to discuss acceptable elective options.

**Minor Requirements for Biomedical Sciences**

The minor in Biomedical Sciences requires completion of 18 semester hours of coursework; including 12 hours of required BMD courses and 6 elective hours. All courses (including prerequisites) must be completed with a grade of C or better. Students must apply to the Biomedical Sciences program for admission to the minor.

**Requirements**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMD 315</td>
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<tr>
<td>BMD 317</td>
<td>4</td>
</tr>
<tr>
<td>BMD 420</td>
<td>2</td>
</tr>
<tr>
<td>BMD 430</td>
<td>3</td>
</tr>
<tr>
<td>BMD Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose 6 Semester Hours of BMD/CDS Elective Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMD Elective or Approved</td>
<td>3-4</td>
</tr>
<tr>
<td>Physics</td>
<td>3-4</td>
</tr>
<tr>
<td>BMD Elective or Approved</td>
<td>3-4</td>
</tr>
<tr>
<td>Physics</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Total Hours**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-18</td>
</tr>
</tbody>
</table>

1. any Honors courses substituted for an original course requirement will require completion of the corresponding lab and/or recitation.

2. or equivalent Core Area IV course applicable to requirement.

3. see Major for approved Statistics courses.

**Health Services Administration**

The Department of Health Services Administration sponsors degree programs at the doctoral, master’s, and baccalaureate levels, including a baccalaureate program in Health Care Management, and undergraduate minors in Health Care Management, Health Information Management, and Clinical Coding and Reimbursement.

**Health Care Management**

Program Director: Paustian
The undergraduate Health Care Management program was established in 1982 to provide management education opportunities for clinical health professionals. Currently, the program offers several curriculum options designed to meet the needs of students with differing career interests and academic backgrounds. The program is designed for aspiring leaders and committed professionals who are interested in mid-level management careers in the healthcare industry. Job opportunities exist in many types of organizations, including delivery settings such as hospitals, medical group practices, ambulatory clinics, and long-term care; managed care, insurance, and pharmaceutical companies; consulting firms, government agencies, and many others. The Health Care Management degree becomes the terminal degree for some individuals and permits entry to graduate and professional degree programs for others.

The undergraduate degree program in Health Care Management is fully certified by the Association of University Programs in Health Administration (AUPHA).

Although we encourage students to participate in the classroom whenever possible, the health care management course delivery formats offer flexibility through daytime, evening, and online class options, including online participation while the class is happening live on campus, or accessing a recorded version at a later time convenient for the student.

Admission options include Freshman entry, the student's previous academic work, current professional status, and personal interests. Curriculum tracks include Pre-Professional, Clinical Manager, Long Term Care Administrator, MSOT Fast Track, and General Manager. Students who plan to seek admission to graduate level health professions programs may apply to the Pre-Professional option. Prerequisites for admission to identified graduate programs can be incorporated into the program of study for this track in the Health Care Management degree. The Clinical Manager option is restricted to individuals who are credentialed or licensed in a health professions discipline. The Long Term Care Administrator track prepares graduates to work in nursing homes and other long term care facilities. The MSOT Fast Track provides freshman year acceptance to the Master of Science in Occupational Therapy Program and includes articulation of coursework between the two degrees. All other students should consider the General Manager option.

Qualified UAB freshmen whose academic goal is the Master of Science in Occupational Therapy Program at UAB may apply for competitive admission to the HCM-OT Fast Track. Eligibility requirements include a high school GPA of 3.0 (A = 4.0), an ACT score of 24 or greater, and qualified for enrollment in EH 101 and MA 105 (or higher). Acceptance into the HCM programs is required for student admission to the Fast Track.

Admission Requirements

For all tracks other than the MSOT Fast Track, the candidate is expected to satisfy the following requirements:

- Have a minimum grade of C in all previous professional coursework to be applied to the degree.
- Have a minimum grade of C in all core curriculum coursework before enrollment in 400 level major courses.
- If accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service.
- If accepted, a background check and drug screening will be required at admission and again prior to clinical placement.

Application Procedure

Applications are accepted by UAB at any time. Students may begin the program at the start of any full academic term. Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

- Completed UAB undergraduate application form, indicating SHP as the school, and application fee, if applicable https://idm.uab.edu/ myuab/login?from=ugadmap
- Official transcripts from each high school, college, or university attended.

The student should request an appointment with a program director/advisor prior to the term of initial enrollment. It is essential to have transcripts of previous coursework during the enrollment interview.

Contact for additional information:

Dr. Pam Paustian, Program Director
Susan Packa, Program Manager/Advisor
Health Care Management Program # School of Health Professions# University of Alabama at Birmingham # Telephone: (205) 975-5173 # Email: packa@uab.edu (paustian@uab.edu) # Web address: http://www.uab.edu/hcm

Major Requirements For Health Care Management

Grade and Residency Requirements

- 2.5 G.P.A. (overall and institutional) required for the Clinical Manager and General Manager Tracks.
- 2.75 G.P.A. (overall and institutional) required for the Pre-Professional and Long Term Care Administrator Tracks.
- 3.0 GPA required for the MSOT Fast Track; grade of B required in all prerequisite coursework for the MSOT Fast Track.
- Internship required during final semester, after all didactic coursework is completed (additional elective required if 3 semester hour internship).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Mathematics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MA 110 Finite Mathematics (Only accepted with approval from the Program Director for the Clinical Manager Track)</td>
<td>3</td>
</tr>
<tr>
<td>MA 105 Pre-Calculus Algebra (or higher)</td>
<td></td>
</tr>
</tbody>
</table>

Required Courses
Minors

Three minors are available in the areas of: Clinical Coding and Reimbursement, Health Care Management, and Health Information Management.

General Electives

Students may need to take general electives to reach the 120 semester hour requirement.

Proposed Program of Study for a Major in Health Care Management

<table>
<thead>
<tr>
<th>Prerequisites Requirement</th>
</tr>
</thead>
</table>

### Health Care Management Curriculum

**Track Requirements**

The Health Care Management Program offers curriculum tracks in the following areas: general manager, clinical manager, pre professional, long-term care administrator, and MSOT Fast Track. It is imperative that students meet with the program manager/advisor to map out specific requirements within the selected track. The program manager/advisor will map out curriculum requirements with students within each track.

A minimum grade of C is required in each course in the HCM Professional Curriculum. A minimum of 120 semester hours are required for graduation, including at least 40 semester hours in courses at the 300-level or above. Courses are available online using distance education technology. No more than 14 semester hours of clinical education (clinical rotations or clinical practice) may be applied toward a baccalaureate degree.

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### Proposed Program of Study for a Major in Health Care Management

<table>
<thead>
<tr>
<th>Freshman</th>
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</table>

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| Minors |

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### Proposed Program of Study for a Major in Health Care Management

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<tr>
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### Proposed Program of Study for a Major in Health Care Management

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<tr>
<th>Freshman</th>
</tr>
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| Minors |

Three minors are available in the areas of: Clinical Coding and Reimbursement, Health Care Management, and Health Information Management.

### General Electives

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### Proposed Program of Study for a Major in Health Care Management

<table>
<thead>
<tr>
<th>Freshman</th>
</tr>
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</table>

### Health Care Management Curriculum

**Track Requirements**

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| Minors |

Three minors are available in the areas of: Clinical Coding and Reimbursement, Health Care Management, and Health Information Management.

### General Electives

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### Proposed Program of Study for a Major in Health Care Management

<table>
<thead>
<tr>
<th>Freshman</th>
</tr>
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</table>

### Health Care Management Curriculum

**Track Requirements**

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A minimum grade of C is required in each course in the HCM Professional Curriculum. A minimum of 120 semester hours are required for graduation, including at least 40 semester hours in courses at the 300-level or above. Courses are available online using distance education technology. No more than 14 semester hours of clinical education (clinical rotations or clinical practice) may be applied toward a baccalaureate degree.

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### Proposed Program of Study for a Major in Health Care Management

<table>
<thead>
<tr>
<th>Freshman</th>
</tr>
</thead>
</table>

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**Track Requirements**

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Minor in Clinical Coding and Reimbursement

Minor in Health Care Management

Minor in Health Information Management

Minor in Clinical Coding and Reimbursement

The minor in Clinical Coding and Reimbursement requires completion of 24 semester hours of course work. Students must apply to the Health Care Management program for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

Minor Requirements for Clinical Coding and Reimbursement

The Clinical Coding and Reimbursement minor requires completion of 24 semester hours of course work. Students must contact the Health Care Management program office for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 318 Survey of Human Anatomy and Physiology for Coding</td>
<td>3</td>
</tr>
<tr>
<td>HCM 325 Healthcare Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HCM 350 Medical Terminology for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HIM 417 Pathology for Coders</td>
<td>3</td>
</tr>
<tr>
<td>HIM 418 Documentation Standards for Health Data</td>
<td>3</td>
</tr>
<tr>
<td>HCM 425 Healthcare Reimbursement Methods</td>
<td>3</td>
</tr>
<tr>
<td>HIM 441 Diagnostic Coding for Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HIM 460 Coding/Classification Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Minor in Health Care Management

The minor in Health Care Management requires completion of 21 semester hours of course work. Students must apply to the Health Care Management program for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

Minor Requirements for Health Care Management

The minor in Health Care Management requires completion of 21 semester hours of course work. Students must apply to the Health Care Management program for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 330 Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>HCM 401 Organizational Studies in Health Care</td>
<td>4</td>
</tr>
<tr>
<td>HCM 403 Operations Management in Health Care Organizations</td>
<td>4</td>
</tr>
<tr>
<td>HCM 405 Human Resource Management in Health Care Organizations</td>
<td>4</td>
</tr>
<tr>
<td>HCM 407 Strategic Management in Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCM 480 Health Care Policy and Reform</td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Minor in Health Information Management

The minor in Health Information Management requires completion of 18 semester hours of course work. Students must apply to the Health Care Management program for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

Minor Requirements for Health Information Management

The Health Information Management minor requires completion of 18 semester hours of course work. Students must contact the Health Care Management program office for admission to the minor, and must have a 2.5 GPA to qualify. All courses must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 325 Healthcare Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HCM 330 Health Care Systems</td>
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<tr>
<td>HCM 425 Healthcare Reimbursement Methods</td>
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<tr>
<td>HCM 435 Clinical and Administrative Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HIM 418 Documentation Standards for Health Data</td>
<td>3</td>
</tr>
<tr>
<td>HIM 475 Electronic Health Records</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

School of Nursing

Dean: Doreen C. Harper, PhD, RN, FAAN
Senior Associate Dean for Academic Affairs: Linda Moneyham, DNS, RN
Associate Dean for Clinical Affairs and Partnerships: Cynthia S. Selleck, DSN, ARNP
Associate Dean for Research and Scholarship: Karen Meneses, PhD, RN, FAAN

Mission of the School of Nursing

The University of Alabama at Birmingham School of Nursing, as part of a research university and academic health center, shapes patient-centered health care by preparing recognized nurse leaders who excel as clinicians, researchers, and educators in Alabama, nationally and internationally.

Approvals/Accreditation

The University of Alabama at Birmingham (UAB) is accredited by the Southern Association of Colleges and Schools (SACS). The School of Nursing is approved by the Alabama Board of Nursing and is accredited by the Commission on Collegiate Nursing Education (CCNE).

Bachelors in Nursing (BSN) Degree

Baccalaureate preparation in nursing is the basic educational level for entry into professional nursing practice. This foundational education includes both academic and professional nursing courses that provide a base for clinical competence and informed judgments about health and patient care in a variety of settings. These settings include, but are not limited to, home/community agencies, outpatient/ambulatory care, and hospital-based practice ranging from chronic to high acuity. Baccalaureate nursing education builds upon knowledge acquired from the humanities and biological, physical, social, and behavioral sciences. By engaging in state-of-the-art technologies, simulations, and other
teaching strategies, the graduate is prepared to care for families and individuals of all ages. The integration of principles of nursing research and principles of leadership and management also assist the graduate to function as an informed member of an interdisciplinary health team. Graduates of the program are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) to become a registered nurse (RN).

**Student Learning Outcomes**

The BSN Curriculum is designed to prepare graduates for entry into professional nursing practice. This foundation offers both academic and professional nursing courses that provide the base for clinical competence and informed judgments about health care situations and care of patients in both in- and out-patient settings. The curriculum prepares nurses to:

- Apply knowledge from diverse liberal arts educational content to generalist nursing care principles and practice experiences.
- Incorporate a basic understanding of organizational systems and the application of knowledge and skills needed to provide safe, quality care to individual patients and to function as part of an interprofessional team.
- Participate in and utilize structure, process, and outcome measures to evaluate the implementation of patient safety and quality improvement initiatives.
- Demonstrate and understanding of the basic elements of the evidence-based practice and participate in the retrieval, appraisal, and application of best practices.
- Demonstrate skills in the ethical use of healthcare information communication technology (ICT) and how technology supports safe practice and examination of patient data for outcome analysis.
- Demonstrate skills in the ethical use of healthcare policy, advocacy, global health, legal, and regulatory issues as factors that may influence healthcare delivery and practice.
- Utilize effective intra and interprofessional communication skills to advocate for evidence-based, holistic care as a member of the healthcare team.
- Assess determinants of health in relation to multiple factors (genetics, environmental exposure, family history, individual health, and health preferences) to guide and advocate for the delivery of healthcare needs/disease prevention strategies.
- Apply knowledge of nursing history, nursing history, nursing standards, an one's own beliefs and values to the application of professional nursing behaviors, communication, and actions.
- Practice safe, evidence-based, compassionate, holistic, and patient and family centered care applying knowledge of leadership and healthcare delivery for individuals and communities.

**BSN Admission for Traditional Students**

Admission decisions are competitive based on the applicant's overall academic record and criteria described below.

**Admission Criteria**

- The minimum cumulative GPA and minimum foundation cumulative GPA for all traditional BSN applicants is **2.75** at the time of application (includes transfer students). Admission is competitive and is based on space available. A minimum cumulative GPA of 2.75 does not guarantee admission to the School of Nursing.

- Students are eligible to apply when they have successfully completed a minimum of 41 semester credit hours. Successful completion of all pre-nursing foundation courses with a "C" or above must be met prior to matriculation into the nursing program.

Students offered admission to the SON who are enrolled in pre-nursing coursework must make a "C" or better in every foundation course for the nursing major. The final minimum cumulative/overall Nursing Foundation Coursework GPA must be a 2.75 or greater on all coursework must be met prior to matriculation into the nursing program.

- Admission decisions are highly competitive and based on the applicant’s academic record and application at the time of the application deadline. *All grades (UAB and other colleges/universities) from previous terms must be posted on applicant’s UAB transcript by the application deadline.*

- A resume outlining health care interest/experience, campus/community involvement, leadership, employment, etc. will be due by the application deadline. Resumes should not be more than one page in length and should only include activities after graduation from high school.

- Applicants are strongly encouraged to provide proof of work/volunteer experience in a healthcare setting as part of the application process. The healthcare work is to be documented by letters from a supervisor (on agency letterhead) and/or time sheets and must consist of a minimum of 60 hours of paid or volunteer work in a healthcare setting. Completion of a nursing skills course does not meet this criterion for BSN applicants.

- Applicants to the School of Nursing are strongly recommended to demonstrate a record of full-time study and a minimum number of course repeats/grade forgiveness options.

**Special Options for Traditional BSN Admission**

- **UAB Dean's Nursing Scholars Program for Entering Freshmen** is a special early admission option for academically qualified high school seniors who have an ACT score of 24 or above or a composite SAT score of 1130 (old), 1680 (new) and a minimum cumulative GPA of 3.2. This option insures admission to the nursing program as long as a minimum GPA of 3.2 is maintained in the BSN foundation courses and a minimum cumulative GPA of 3.0 is maintained. Students who apply for this program can only use 12 hours of dual enrollment coursework from high school.

- **UAB Dean's Nursing Scholars Program**

  [http://www.uab.edu/nursing/home/student-information/honors-and-scholars-programs](http://www.uab.edu/nursing/home/student-information/honors-and-scholars-programs)

**Prior to Enrollment for Upper Division Nursing Courses**

- **CPR certification** will be due prior to registration for upper division courses (listed are approved courses)
- **American Heart Association’s Healthcare Provider Course** (Course C or BLSC)
- **American Red Cross’ Professional Rescuer Course**
- **Medical Clearance, a Background Check, and a Drug Screen** are required prior to beginning class for all upper division nursing courses and must be maintained throughout the program until the student graduates. Failure to comply may result in administrative withdrawal from the program.
Application Deadlines

Fall and Spring admission dates listed at - https://www.uab.edu/nursing/home/student-information/acad-prog/application-deadlines

All transfer students must be admitted to the University one month prior to the School of Nursing application deadline.

Applicants will receive an admissions decision a minimum of 4 weeks after application for the semester for which they are applying.

Future updates on the BSN admission process will be posted on the School of Nursing website (www.uab.edu/nursing) and will be available from your Pre-Nursing Advisor. If you have any questions concerning these changes, please feel free to contact the School of Nursing Office of Student Affairs at http://www.uab.edu/nursing/home/student-information/contact-us.

Traditional Students are those students who seek to enter the Undergraduate BSN program and are not a RN.

Pre-Nursing Requirements for the Traditional BSN

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Nursing Courses</td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>MA 180 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>QM 214 Quantitative Analysis I</td>
<td></td>
</tr>
<tr>
<td>JS 120 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
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</tr>
</tbody>
</table>

Requirements for Major in Nursing

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Nursing Courses</td>
<td></td>
</tr>
<tr>
<td>NUR 310 Concepts of Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 311L Nursing Skills Development I</td>
<td>2</td>
</tr>
<tr>
<td>NUR 313L Concepts of Professional Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 312L Health Assessment Across the Lifespan</td>
<td>2</td>
</tr>
<tr>
<td>NUR 315 Population Focused Health Care</td>
<td>2</td>
</tr>
<tr>
<td>NUR 314 Pharmacotherapy &amp; Disease Process I</td>
<td>2</td>
</tr>
<tr>
<td>NUR 326 Concepts in Adult Health Nursing I</td>
<td>3</td>
</tr>
<tr>
<td>NUR 327L Concepts of Adult Health Nursing I Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 322 Concepts of Behavioral Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 323L Concepts of Behavioral Health Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 324 Pharmacotherapy &amp; Disease Process II</td>
<td>3</td>
</tr>
<tr>
<td>NUR 336 Leadership</td>
<td>2</td>
</tr>
<tr>
<td>NUR 321L Nursing Skills Development II</td>
<td>1</td>
</tr>
<tr>
<td>NUR 388 Concepts of Adult Health Nursing II</td>
<td>3</td>
</tr>
<tr>
<td>NUR 389L Concepts of Adult Health Nursing II Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 392 Concepts of Maternal Child Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NUR 393L Concepts of Maternal Child Health Nursing Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NUR 334 Pharmacotherapy Disease Process III</td>
<td>2</td>
</tr>
<tr>
<td>NUR 426 Concepts of Complex Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 427L Concepts of Complex Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 428 Concepts of Community and Public Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 429L Concepts of Community and Public Health Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 409 Healthcare and Information Technology</td>
<td>2</td>
</tr>
<tr>
<td>NUR 410 Evidence-Based Practice in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 431L Nursing Skills Development III</td>
<td>1</td>
</tr>
<tr>
<td>NUR 447L Synthesis and Assimilation Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 444 Synthesis Review Course</td>
<td>1</td>
</tr>
<tr>
<td>NUR 448 Transition to Professional Nursing Practice</td>
<td>2</td>
</tr>
<tr>
<td>Nursing Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>66</td>
</tr>
</tbody>
</table>

Additional Requirements

Pre-application Credit Hour Requirement

Successful completion of all core and pre-nursing requirements and a minimum of 41 semester hours are prerequisites for admission to the School of Nursing. Final coursework may be in progress.

Grade of C or greater required for all core, pre-nursing and major in nursing courses and a minimum of a 2.75 for the core, pre-nursing and major in nursing courses to be considered for application.

Pre-application mandatory meeting with pre-nursing advisor

In order to apply to the School of Nursing, all students must meet with their pre-nursing advisor to evaluate completion of all School of Nursing requirements for application and receive a Certificate of Advisement used to obtain an application for the School of Nursing.

Freshman Year Experience

Students entering UAB with less than 24 credit hours who plan to enter the nursing program are required by the University to take a 2 hour approved Freshman Year Experience course in order to graduate. This increases the total number of credit hours to 127 that is required for graduation from the BSN program for these students.

BSN Course Requirements

BSN Foundation Courses

Grades for these courses will be used to calculate the BSN Foundation grade point average used in the determination for admission to the BSN program; a minimum grade of C is required in each course.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115 Human Anatomy &amp; 115L and Human Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology &amp; 116L and Introductory Human Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology &amp; 261L and Introduction to Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CH 105 Introductory Chemistry I &amp; CH 106 and Introductory Chemistry I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CH 107 Introductory Chemistry II &amp; CH 108 and Introductory Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EH 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>EH 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MA 105 Pre-Calculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>
Fall/Spring admission

These courses are taught after admission into the School of Nursing.

Additional General Studies Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
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</tr>
<tr>
<td>History 1</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>Elective, Core Curriculum Area II</td>
<td>3</td>
</tr>
<tr>
<td>Elective, Core Curriculum Area IV</td>
<td>3</td>
</tr>
<tr>
<td>NUR 100 Student Success in Nursing (or other approved Freshman Year Experience course.)</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Student needs either a 6 hour sequence of history or literature.

Professional Nursing Courses

These courses are taught after admission into the School of Nursing.

Fall/Spring admission

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 310 Concepts of Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 311L Nursing Skills Development I</td>
<td>2</td>
</tr>
<tr>
<td>NUR 312L Health Assessment Across the Lifespan</td>
<td>2</td>
</tr>
<tr>
<td>NUR 313L Concepts of Professional Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 314 Pharmacotherapy &amp; Disease Process I</td>
<td>2</td>
</tr>
<tr>
<td>NUR 315 Population Focused Health Care</td>
<td>2</td>
</tr>
<tr>
<td>NUR 321L Nursing Skills Development II</td>
<td>1</td>
</tr>
<tr>
<td>NUR 322 Concepts of Behavioral Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 323L Concepts of Behavioral Health Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 324 Pharmacotherapy &amp; Disease Process II</td>
<td>3</td>
</tr>
<tr>
<td>NUR 326 Concepts in Adult Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 327L Concepts of Adult Health Nursing I Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 334 Pharmacotherapy Disease Process III</td>
<td>2</td>
</tr>
<tr>
<td>NUR 336 Leadership</td>
<td>2</td>
</tr>
<tr>
<td>NUR 388 Concepts of Adult Health Nursing II</td>
<td>3</td>
</tr>
<tr>
<td>NUR 389L Concepts of Adult Health Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 392 Concepts of Maternal Child Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NUR 393L Concepts of Maternal Child Health Nursing Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NUR 409 Healthcare and Information Technology</td>
<td>2</td>
</tr>
<tr>
<td>NUR 410 Evidence-Based Practice in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 425 Concepts of Complex Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 427L Concepts of Complex Nursing Practicum</td>
<td>1</td>
</tr>
<tr>
<td>NUR 428 Concepts of Community and Public Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 429L Concepts of Community and Public Health Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 431L Nursing Skills Development III</td>
<td>1</td>
</tr>
<tr>
<td>NUR 447L Synthesis and Assimilation Practicum</td>
<td>4</td>
</tr>
<tr>
<td>NUR 448 Transition to Professional Nursing Practice</td>
<td>2</td>
</tr>
</tbody>
</table>

Second Degree BSN Students Course Requirements

- **Traditional Entry** [http://www.uab.edu/nursing/home/student-information/acad-prog/bsn](http://www.uab.edu/nursing/home/student-information/acad-prog/bsn)
- **Accelerated Entry** [http://www.uab.edu/nursing/home/student-information/acad-prog/amnp](http://www.uab.edu/nursing/home/student-information/acad-prog/amnp)

Individuals who have completed a previous undergraduate degree, outside the field of nursing, and who have met the UAB criteria for School of Nursing admissions, may be considered for admission to the School of Nursing at the University of Alabama at Birmingham (UAB) Bachelor of Science of Nursing (BSN) program or the Accelerated Master’s into Nursing Pathway (AMNP). Second-degree students seeking the BSN degree are admitted fall and spring terms. The AMNP program is a graduate level program, and results in a Master of Science in Nursing and admits in the spring term.

Second-degree applicant requirements

- Earned at least a bachelor’s degree in a major other than nursing at a regionally accredited institution.
- A pre-nursing foundation course GPA of at least 2.75 and an overall GPA of 2.75 OR A pre-nursing foundation course GPA of at least 2.75 and a GRE General Test score of: 293 (or 1000 on previous scale) on the Verbal and Quantitative sections and; 4 or better on the analytical writing skills portion.
- Submit all material, follow the same processes, and adhere to the same deadlines/requirements as all other undergraduate BSN applicants.
- Admission as a degree-seeking, pre-nursing student through the UAB Office of Undergraduate admissions. The on-line application for the UAB Office of Undergraduate Admissions is available at [https://www.uab.edu/home/apply-for-uab-admission](https://www.uab.edu/home/apply-for-uab-admission) along with contact information.
- Advisement with an assigned Pre-Nursing Advisor is a requirement for application to the School of Nursing.
- Once admitted as a undergraduate pre-nursing student to UAB, you will be notified through an offer of admission letter to contact your assigned Pre-Nursing Advisor at (205) 975-7529 for pre-nursing academic advisement.
- Second degree students are eligible for the Honors in Nursing Program.

The following prerequisite courses (32 credit hours) must be successfully completed (with a grade of C or greater) prior to the student being considered for admission to the undergraduate program in the School of Nursing:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CH 105 Introductory Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CH 106 &amp; CH 106 and Introductory Chemistry I Laboratory 1</td>
<td>4</td>
</tr>
<tr>
<td>CH 107 Introductory Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CH 108 &amp; CH 108 and Introductory Chemistry II Laboratory 1</td>
<td>4</td>
</tr>
</tbody>
</table>
The proposed program of study for a major in Nursing

Students may deviate from this curriculum plan only with the permission of the BSN Program Coordinator/Honors Program Coordinator.

Students entering UAB with less than 24 credit hours who plan to enter the nursing program are required to take a 2 hour approved Freshman Year Experience course in order to graduate.

<table>
<thead>
<tr>
<th>Statistics</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 180</td>
<td>Introduction to Statistics</td>
</tr>
<tr>
<td>PY 216 &amp; 216L</td>
<td>Elementary Statistical Methods and Elementary Statistical Methods Laboratory</td>
</tr>
<tr>
<td>QM 214</td>
<td>Quantitative Analysis I</td>
</tr>
<tr>
<td>JS 120</td>
<td>Introduction to Statistics</td>
</tr>
</tbody>
</table>

**Total Hours** 32

1. If a student takes Microbiology at UAB, please contact your pre-nursing advisor for appropriate required course. Otherwise, a second science with lab may be substituted (excluding Geology and Astronomy).

Second-degree applicants must submit all material, follow the same processes and adhere to the same deadlines and requirements as all other undergraduate BSN applicants. The upper-division Nursing course requirements (66 credit hours) and the length of the program (five semesters) for second-degree applicants/students are the same as for the basic BSN applicants/students.

For information related to specific programs of study please refer to the School of Nursing catalog.

### Proposed Program of Study for a Major in Nursing

Students may deviate from this curriculum plan only with the permission of the BSN Program Coordinator/Honors Program Coordinator.

Students entering UAB with less than 24 credit hours who plan to enter the nursing program are required to take a 2 hour approved Freshman Year Experience course in order to graduate.

#### Freshman

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>EH 101</td>
<td>3</td>
<td>EH 102</td>
<td>3</td>
<td>NUR 311L</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MA 110 or 105</td>
<td>3</td>
<td>BY 115</td>
<td>4</td>
<td>NUR 313L</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CH 105</td>
<td>4</td>
<td>CH 107</td>
<td>4</td>
<td>NUR 312L</td>
<td>2</td>
</tr>
<tr>
<td>&amp; CH 106</td>
<td>&amp; CH 108</td>
<td></td>
<td></td>
<td>&amp; CH 108</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PY 101</td>
<td>3</td>
<td>Core Curriculum Area IV: History</td>
<td>3</td>
<td>NUR 314</td>
<td>2</td>
</tr>
</tbody>
</table>

**13** 16 **13**

#### Sophomore

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>BY 116</td>
<td>4</td>
<td>BY 261</td>
<td>4</td>
<td>NUR 429L</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MA 180 or PY 216</td>
<td>3-4</td>
<td>NTR 222</td>
<td>3</td>
<td>NUR 427L</td>
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</tr>
<tr>
<td></td>
<td>Core Curriculum Area II: Literature</td>
<td>3</td>
<td>PY 212</td>
<td>3</td>
<td>NUR 448</td>
<td>2</td>
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<tr>
<td></td>
<td>Core Curriculum Area II: Fine Arts</td>
<td>3</td>
<td>Core Curriculum Area II: Humanities (Literature for sequence)</td>
<td>3</td>
<td>NUR 426</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Core Curriculum Area II: Humanities</td>
<td>3</td>
<td>Core Curriculum Area II: Social and Behavioral Science (History for sequence)</td>
<td>3</td>
<td>NUR 410</td>
<td>2</td>
</tr>
</tbody>
</table>

**16** 17 **16**

#### Junior

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>NUR 310</td>
<td>3</td>
<td>NUR 326</td>
<td>3</td>
<td>NUR 334</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 311L</td>
<td>2</td>
<td>NUR 327L</td>
<td>2</td>
<td>NUR 409</td>
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</tr>
<tr>
<td></td>
<td>NUR 325</td>
<td>2</td>
<td>NUR 324</td>
<td>3</td>
<td>NUR 428</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 314</td>
<td>2</td>
<td>NUR 336</td>
<td>2</td>
<td>NUR 429L</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NUR 321L</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**13** 16 **13**

#### Senior

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>NUR 426</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NUR 427L</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 448</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 392</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 393L</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 431L</td>
<td>1</td>
</tr>
</tbody>
</table>

**14** 10 **14**

**Total credit hours: 125-126**

1. The nursing elective may be taken any term prior to graduate but the recommended time is for the summer semester between the Junior and Senior year.

### Honors in Nursing

#### Purpose

Provide research experiences that engage students, faculty, and staff with the community to identify and meet community needs and to enhance academic engagement.

#### Eligibility

Acceptance into the Nursing Honors Program requires the student to:

- Be accepted into the School of Nursing
- Have earned a 3.40 GPA in Foundation courses
- Have earned a 3.00 GPA UAB and overall
- Have submitted the Honors Program Application Form
- Have been selected by Honors Committee from application, transcript evaluation, and interview
- BSN, Second degree BSN students, and RN-BSN Mobility students are eligible for participation in the nursing honors program

#### Requirements

- Maintenance of a 3.00 GPA (UAB) and a 3.25 GPA in nursing courses through graduation.
- Completion of a minimum of 6 credit hours designated for honors clinical courses/seminars.
- An oral or poster presentation at a designated meeting in the School of Nursing, professional meeting or scientific session.

#### Benefits

Students who successfully complete the program will receive a certificate of acknowledgement at the UAB Honors Convocation and will graduate “With Honors in Nursing”. Students who participate in both the UAB Honors program and the School of Nursing Honors program will graduate “With University Honors in Nursing”.

The UAB Honors in Nursing Program endeavors to offer specific students enrichment opportunities beyond the traditional courses. Comprised of three courses that encompass six credit hours, the program adds three additional credit hours to the standard curriculum. A detailed explanation of the three semester hours of coursework include:
A focus on the introduction to nursing research, research ethics and the fundamentals of research critique. In addition, research groups are created and assigned to an established/funded research teams (most congruent with the students identified research interest when possible). While students do not actively participate in the research team until semester three of the program, each student group completes an annotated bibliography specific to the research question of their team.

1. A focus on the introduction to nursing research, research ethics and the fundamentals of research critique. In addition, research groups are created and assigned to an established/funded research teams (most congruent with the students identified research interest when possible). While students do not actively participate in the research team until semester three of the program, each student group completes an annotated bibliography specific to the research question of their team.

2. Additional research education that includes research terminology, design, strengths/limitations of select designs, sampling principles, data interpretation, and dissemination. At the conclusion of semester two, each group builds upon the annotated bibliography to complete a review of the literature paper specific to the primary research question of the team.

3. Completion of a 90-hour practicum as a member of their assigned research team and engagement in activities across the research spectrum. Each group develops an abstract and presents a poster at the UAB Undergraduate Research Expo that highlights the specific work completed during the practicum.

Contact
For more information and/or admission to the Nursing Honors Program, please contact:

Shannon Morrison, PhD, FNP-BC
Assistant Professor and Nursing Honor’s Program Coordinator
Phone: 205-996-7841
Email: samorris@uab.edu

Admission Requirements for the BSN Degree: RN-BSN Option
The RN-BSN Option for registered nurses (RNs) is distance-accessible program with a one-time, 2 day on campus intensive requirement. The program is designed to provide an opportunity for advanced placement in the program of nursing studies for individuals with previous nursing knowledge and/or experience. The RN-BSN Option is open to any student who has submitted evidence of successful completion of an accredited diploma or associate degree nursing program and a current license to practice as a registered nurse in the state in which you will do your practicum.

Upon admission to the School of Nursing, RNs can earn their BSN in as few as 2 terms; however, the curriculum plan can be individualized for students who choose to decelerate their pace due to other commitments (average time for completion is 3 to 4 terms).

Requirements for admission include the following:

- Admission to UAB as a regular pre-RN-BSN Option student through the Office of Undergraduate Admissions. (Recommended to contact the Nurse Recruiter in the Office of Student Affairs at 205-934-3534 PRIOR to applying to UAB.)
- Application for admission to the School of Nursing RN-BSN Option.
- Admission grade point average of at least 2.5 on a 4.0 scale.
- A grade of at least “C” in Human Anatomy, Human Physiology, Microbiology, and Descriptive Statistics. There are no time limits on general studies courses for RN-BSN Option students.
- Evidence of successful completion of an accredited diploma or associate degree nursing program and a current license to practice as a registered nurse in the state in which you will do your practicum course.
- Advisement with the Student Nurse Recruiter at the School of Nursing (can be done before applying to UAB).
- RN-BSN Option students are eligible for the Honors in Nursing Program.

Admission is based upon the academic record, admission application, and all supporting documents.

Additionally, RN-BSN Option students entering the RN-BSN Option who have a Bachelor’s degree from a regionally accredited school with a minimum of 120 credit hours will be exempt for all general studies requirements except for Area V requirements. Students can ask for an exemption from Area V courses based on a review of transcripts and resume/ CV by the RN-BSN Option Coordinator. Descriptive statistics would not be included in this exemption.

**Student with a bachelor's degree may also qualify for the ADN to MSN option. [https://www.uab.edu/nursing/home/student-information/acad-prog/msn](https://www.uab.edu/nursing/home/student-information/acad-prog/msn)

Pre-Nursing Requirements for RN-BSN Mobility

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Nursing</td>
<td></td>
</tr>
<tr>
<td>BY 115 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BY 116 Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BY 261 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>PY 212 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>MA 480 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>QM 214 Quantitative Analysis I</td>
<td></td>
</tr>
<tr>
<td>JS 120 Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Any course not used to satisfy another requirement may be taken from any area. Recommended Courses Include:</td>
<td>3</td>
</tr>
<tr>
<td>NTR 222 Nutrition and Health</td>
<td></td>
</tr>
<tr>
<td>SOC 100 Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 245 Contemporary Social Problems</td>
<td></td>
</tr>
<tr>
<td>PHL 125 Introduction to Ethics</td>
<td></td>
</tr>
<tr>
<td>Or a foreign language, especially Spanish.</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 21

Requirements for Major in Nursing (RN-BSN Mobility)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Nursing Courses</td>
<td></td>
</tr>
</tbody>
</table>
Additional Requirements

RN License

Only students who are licensed RNs may complete the RN-BSN Option curriculum.

Pre-Application Advisor Contact

Students interested in the RN-BSN Option should contact the Student Nurse Recruiter who advises the RN-BSN Option students. Please call 205-934-5491 to speak to the advisor.

Progression Requirements

The RN student who has successfully completed all prerequisite courses and the courses listed below will receive equivalency credit of 36 semester hours for specified clinical nursing courses.

Flexible Scheduling

This distance-accessible option offers RNs the flexibility to complete the BSN requirements while maintaining work and family responsibilities. Faculty are available in person or in virtual classroom format.

Practicum Course

There is one leadership practicum course in the RN-BSN Option. This course is designed to enable RN students to build on their existing clinical expertise, broaden their exposure to different specialty areas, and apply theory learned throughout the curriculum. Faculty will assist the RN in planning experience that meet the course objective. For students who live outside the Birmingham area, faculty will assist in arranging preceptored leadership experience.

RN-BSN Option Course Requirements

BSN Foundation Courses

Grades for these courses will be used to calculate the BSN Foundation grade point average for admission into the School of Nursing.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY 115</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>BY 116</td>
<td>4</td>
</tr>
<tr>
<td>Introductory Human Physiology</td>
<td></td>
</tr>
<tr>
<td>BY 261</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Microbiology</td>
<td></td>
</tr>
<tr>
<td>CH 105</td>
<td>4</td>
</tr>
<tr>
<td>Introductory Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CH 106</td>
<td>4</td>
</tr>
<tr>
<td>and Introductory Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
<td>3</td>
</tr>
<tr>
<td>English Composition I</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 347 Pathophysiology for Professional Nursing Practice for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 381 Informational Research for Nursing Practice for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 474 Transition to Professional Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 475 Health Assessment Across the Lifespan for RNs</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Mobility Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 378 Nursing of the Older Adult for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 397 Community and Public Health Nursing for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 457 Leadership and Management in Professional Nursing for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 458L Leadership Development Practicum for RNs</td>
<td>2</td>
</tr>
</tbody>
</table>

Nursing Elective

Select three hours from Nursing (NUR) courses not used to satisfy other requirements. 3

Total Hours 30

Additional General Studies Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 102</td>
<td>3</td>
</tr>
<tr>
<td>English Composition II</td>
<td></td>
</tr>
<tr>
<td>MA 105</td>
<td>3</td>
</tr>
<tr>
<td>Pre-Calculus Algebra</td>
<td></td>
</tr>
<tr>
<td>PY 212</td>
<td>3</td>
</tr>
<tr>
<td>Developmental Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Additional General Studies Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>NUR 381 Informatics and Research for Nursing Practice for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 378 Nursing of the Older Adult for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 397 Community and Public Health Nursing for RNs</td>
<td>4</td>
</tr>
<tr>
<td>NUR 457 Leadership and Management in Professional Nursing for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 458L Leadership Development Practicum for RNs</td>
<td>2</td>
</tr>
<tr>
<td>NUR 474 Transition to Professional Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 475 Health Assessment Across the Lifespan for RNs</td>
<td>4</td>
</tr>
</tbody>
</table>

| Nursing Elective | 3 |

1 Students need either a 6 hour sequence in literature or history.

Professional Nursing Courses

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 347 Pathophysiology for Professional Nursing Practice for RNs</td>
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</tr>
<tr>
<td>NUR 381 Informational Research for Nursing Practice for RNs</td>
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</tr>
<tr>
<td>NUR 378 Nursing of the Older Adult for RNs</td>
<td>3</td>
</tr>
<tr>
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<td>4</td>
</tr>
<tr>
<td>NUR 457 Leadership and Management in Professional Nursing for RNs</td>
<td>3</td>
</tr>
<tr>
<td>NUR 458L Leadership Development Practicum for RNs</td>
<td>2</td>
</tr>
<tr>
<td>NUR 474 Transition to Professional Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 475 Health Assessment Across the Lifespan for RNs</td>
<td>4</td>
</tr>
</tbody>
</table>

Nursing Elective 2 3

1 36 credits of validated courses from previous nursing content will be awarded after successful completion of NUR 474, NUR 475, NUR 381, and NUR 347.

2 Students may replace these courses with graduate level nursing courses, after meeting with their faculty advisor.

Students planning to continue towards the MSN Degree

A student may qualify for substitution of up to two courses from their RN-BSN Option courses as listed above. Any course substituted will go towards the students BSN degree, and will be waived from their master’s degree requirements if the course is part of that master’s specialty coursework.

A student will need to apply for the masters of nursing program through the on-line graduate application.

For admission in good standing to the MSN program:

- Cumulative grade point average of at least 3.0 on a 4.0 scale, or on the last 60 semester hours.
- A score of 410 on the MAT; or a combined score of 293 (or a 1000 on the previous scale) on the verbal and quantitative sections of the Graduate Record Examination (GRE) or a score of 480 on the GMAT.
• Letters of professional reference attesting to the applicant’s potential for graduate study.

GRE, GMAT, and MAT are waived for students with a 3.2 or better GPA. The GRE/GMAT/MAT Waiver Process allows eligible candidates for masters’ study to have the requirement of satisfactory GRE, GMAT or MAT scores waived for admission if the student has BSN Grade Point Average (GPA) of 3.2 or above on a 4.0 scale. Students in the RN-BSN-MSN option must maintain a cumulative grade point average of at least 3.0 and follow their approved curriculum plan.

School of Public Health

About the School of Public Health

The School of Public Health was established in 1978 when Dr. William Bridges established a program to address community health problems. His activity captivated a great deal of press and attracted the attention of Dr. Jarvis Ryals, a neurologist, 1965 UAB graduate, and donor. He initiated the creation of the building that the school now occupies and requested that it be named after his parents.

For over thirty years, the School of Public Health has continued Dr. Bridges’ crusade to improve health and living conditions in local Alabama communities and has expanded that vision to all areas of the world. Through research, education, and community outreach, we address community and global health problems and train the next generation of innovative public health workers.

The mission of the School of Public Health is to lead in developing, disseminating and applying knowledge to prevent disease and promote health in the human population. Because of its inherent breadth, public health is comprised of many disciplines. Thus the school achieves its mission by bringing the various disciplines together to educate individuals who will be working to prevent disease and improve the health of the school’s constituent populations. These individuals include experienced public health and other health professionals, undergraduates with education backgrounds in the sciences, and persons from developing countries with health-related backgrounds. An implicit part of this mission is a commitment to increase and validate, through research and practice, the body of knowledge upon which the school’s educational programs are necessarily based.

Contact Information

Dean: Max Michael, MD
Associate Dean for Graduate Programs: Peter M. Ginter, MBA, PhD
Assistant Dean for Undergraduate Programs: Suzanne E. Judd, PhD
Undergraduate Student Advisor: Nicole Gravitt, MA
Advisor’s Contact Number: (205) 934-7759
Major Offered: Bachelor of Science in Public Health
Minor Offered: Public Health
Website: www.soph.uab.edu/students

BS Public Health Competencies

• Understand historical milestones in public health and how they influence current practice.

• Explain disease processes from a biological, environmental, social and behavioral perspective.

• Identify the role of health disparities in studying the health needs of communities and improving population health.

• Describe how data and study design methodology are utilized in quantifying public health problems.

• Communicate public health approaches, messages, and findings effectively both orally and in writing.

BS Public Health Degree Concentrations

The bachelor’s degree is designed to give students a foundational understanding of public health issues and methods. The UAB School of Public Health will offer a Bachelor of Science in Public Health with concentrations in the following three areas:

• Environmental Health Sciences Concentration
• Global Health Studies Concentration
• Public Health Concentration

website: http://www.soph.uab.edu/bachelors

Admissions

Undergraduate students admitted to UAB may enroll in the UAB School of Public Health.

UAB Undergraduate Admissions Website: http://www.uab.edu/students/undergraduate-admissions

Bachelor of Science in Public Health

Catalog: https://www.soph.uab.edu/bachelors

Description

The B.S in Public Health degree program will train students in multidisciplinary approaches to public health practice and research. The degree will explore both quantitative and qualitative aspects of public health at all levels of analysis. Graduates will advance, through employment or further education, to become the new generation of public health professionals prepared to face the emerging challenges to human health from a population perspective.

The B.S. degree in Public Health will be offered through the UAB School of Public Health which is the only Council on Education for Public Health (CEPH) accredited degree in the state. The Public Health major will provide a broad and rigorous sequence of courses in biostatistics, epidemiology, public health systems, behavior science, and environmental health sciences. Students must choose one of the following concentrations: public health, environmental health sciences, or global health studies.

Program Completion Requirements

• Credit hours required in major: 27 hours plus a 1 hour first year experience course
• Credit hours required in concentration: 18 hours
• Credit hours in institutional general education or core curriculum: 41 hours
• Credit hours in required or free electives: 34 hours
• Total credit hours required for completion: 120 hours

## Major Requirements for Public Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience (for students entering UAB w/ less than 24 credit hours earned)</td>
<td></td>
</tr>
<tr>
<td>PUH 101 Transitioning to College, Exploring Public Health</td>
<td>1</td>
</tr>
</tbody>
</table>

### Public Health Core Classes (27 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUH 201</td>
<td>The Origins of Epidemics: How Public Health Defines Population and Nations</td>
<td>3</td>
</tr>
<tr>
<td>PUH 202</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PUH 204</td>
<td>Health Meets Life: Sex, Drugs, Weight, and other Health Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>PUH 210</td>
<td>Biological Basis of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUH 220</td>
<td>Environmental Factors in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUH 250</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PUH 302</td>
<td>Epid: Beyond the Outbreak</td>
<td>3</td>
</tr>
<tr>
<td>PUH 307</td>
<td>Public Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>PUH 495</td>
<td>Public Health Capstone Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 28

Click the following link to view undergraduate Public Health Electives: [http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory](http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory)

## Undergraduate Program Concentrations

### Environmental Health Sciences Concentration

A concentration in Environmental Health Sciences will prepare you to protect both the environment and workers by identifying and eliminating health hazards. The environmental health sciences concentration will teach you to identify toxins and their effects on human and natural populations. Environmental scientists work in public and private sector careers to address problems such as pollution, water safety, and ecosystem protection.

**Environmental Health Sciences Curriculum Planning Sheet**

- Please visit the Environmental Health Sciences website for more information: [http://www.sparkmancenter.org/](http://www.sparkmancenter.org/)

## Major Requirements for Public Health with a Concentration in Environmental Health Sciences

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUH 321 The Workplace Environment and Worker Safety and Health (previously ENH 301)</td>
<td>3</td>
</tr>
<tr>
<td>PUH 322 Environmental Justice and Ethics (previously ENH 310)</td>
<td>3</td>
</tr>
<tr>
<td>PUH 421 Nature vs. Nurture: Genes, Environment and Health (previously ENH 405)</td>
<td>3</td>
</tr>
</tbody>
</table>

## Global Health Studies Concentration

As a student in the Global Health Studies concentration you will learn about health conditions that affect people around the world and associated challenges that make these issues difficult to address such as poverty, cultural beliefs, and population dynamics. This program will prepare you to work both locally and globally in public health by studying the effects of disease and learning how to plan and implement public health programs.

### Global Health Studies Curriculum Planning Sheet

- Please visit the Sparkman Center website for more information: [http://www.sparkmancenter.org/](http://www.sparkmancenter.org/)

## Major Requirement for Public Health with a Concentration in Global Health Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUH 332 Global Communicable Disease Challenges (previously GHS 401)</td>
<td>3</td>
</tr>
<tr>
<td>PUH 331 The Rise of Non-Communicable Diseases Globally (previously GHS 301)</td>
<td>3</td>
</tr>
<tr>
<td>PUH 333 Food, Water, and Air: the Global Environment and Health (previously GHS 303)</td>
<td>3</td>
</tr>
<tr>
<td>PUH 432 Global Health Cases (previously GHS 402)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 18

Approved electives for the Environmental Health Sciences concentration include:

- GHS 320 Global Health Service Learning
- PUH 491 Directed Study in Public Health
- PUH 333 Food, Water, and Air: the Global Environment and Health
- PUH 341 Public Health Preparedness and Emergency Management
- PUH 342 Public Health Disasters
- PUH 405 Managing Public Health Programs
- PUH 498 Special Topics in Public Health
- GHS 429 Intensive Global Health Training
- SIFAT, GHS 430 Global Health Training
- SIFAT, GHS 420 Field Studies: Jamaica
- ANTH 299 Contemporary Global Issues
- ANTH 422 Landscape Archaeology
- BY 426 Evolutionary Medicine
- HY 306 Social History of the Automobile
- HY 483 Internship in Environmental Studies
- MESC 209 Hurricanes of the Gulf of Mexico
- SOC 470 Population Dynamics

### Public Health Concentration

Public Health Concentration - Public health is multi-disciplinary. This concentration allows flexibility for the student wishing to sample public health concentration. The concentration should include at least 6 hours from the 400-level and a service learning designated course.

| Approved Electives for the Global Health Studies concentration include: |
| GHS 320-Global Health Service Learning*, PUH 436-Maternal and Child Health in Africa and Asia, GHS 429-SIFAT 3 Hours (summer)*, \( ^* \) GHS 430-SIFAT 6 Hours (summer)*, \( ^* \) GHS 420-Jamaica (summer)*, PUH 491-Independent Study, \( ^* \) EC 407-International Economics, PUH 336-American Foreign Policy, PUH 362-Global Policy Issues, ANTH 299-Contemporary Global Issues, PUH 342-Public health disasters |

### Major Requirements for Public Health with a Concentration in Public Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 courses from the following list to total 18 hours for the public health concentration. The concentration should include at least 6 hours from the 400-level and a service learning designated course.</td>
<td>18</td>
</tr>
</tbody>
</table>

#### Elective Courses

- PUH 321 The Workplace Environment and Worker Safety and Health
- PUH 322 Environmental Justice and Ethics (service learning)
- PUH 331 The Rise of Non-Communicable Diseases Globally
- PUH 332 Global Communicable Disease Challenges
- PUH 333 Food, Water, and Air: the Global Environment and Health (service learning)
- PUH 340 Professionalism in Public Health
- PUH 341 Public Health Preparedness and Emergency Management
- PUH 342 Public Health Disasters
- PUH 350 Beating the Odds: Statistical Modeling and Disease Prediction
- PUH 352 Risk Reporting: Interpreting and Writing Medical News
- PUH 354 Scratching the Iche: Introduction to Infection Control and Hospital Epidemiology
- PUH 405 Managing Public Health Programs
- PUH 421 Nature vs. Nurture: Genes, Environment and Health
- PUH 422 Fundamentals of Toxicology: Poisons and People
- PUH 432 Global Health Cases
- PUH 441 Public Health Law and Policy
- PUH 442 Children and Families: Issues in Health, Poverty, and Policies
- PUH 450 Statistical Programming and Database Analysis
- PUH 491 Directed Study in Public Health
- PUH 498 Special Topics in Public Health
- GHS 320 Global Health Service Learning (service learning)
- GHS 420 Field Studies: Jamaica (service learning)
- GHS 429 Intensive Global Health Training - SIFAT (service learning)

### Minor in Public Health

Minor in Public Health

Public Health is an exciting and growing field of study. The field challenges its professionals to confront complex health issues, such as improving access to health care, controlling infectious disease, and reducing environmental hazards, violence, substance abuse, and injury.

A Bachelor in Public Health is an undergraduate degree, which trains students in the essential skills needed to plan, initiate and manage healthcare programs. Research has shown the impact of healthy lifestyles on the rate of incidence of illnesses and on increasing longevity; hence, public health is now considered a very significant area of study.

Catalog: [www.soph.uab.edu/minor](http://www.soph.uab.edu/minor)

### Minor Requirements for Public Health

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Public Health Courses</td>
<td></td>
</tr>
<tr>
<td>PUH 201 The Origins of Epidemics: How Public Health Defines Population and Nations</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses</td>
<td>12</td>
</tr>
<tr>
<td>Select four from the following:</td>
<td></td>
</tr>
<tr>
<td>PUH 202 Introduction to Global Health</td>
<td></td>
</tr>
<tr>
<td>PUH 204 Health Meets Life: Sex, Drugs, Weight, and other Health Behaviors</td>
<td></td>
</tr>
<tr>
<td>PUH 210 Biological Basis of Public Health</td>
<td></td>
</tr>
<tr>
<td>PUH 220 Environmental Factors in Public Health</td>
<td></td>
</tr>
<tr>
<td>PUH 250 Biostatistics</td>
<td></td>
</tr>
<tr>
<td>PUH 302 Epid: Beyond the Outbreak</td>
<td></td>
</tr>
<tr>
<td>PUH 307 Public Health Systems</td>
<td></td>
</tr>
<tr>
<td>Select one course from approved list.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 18

Number of hours required: 18 hours
- 15 hours offered by the School of Public Health
- 3 hours of electives - The elective may be any course from the approved list below not already being used towards the minor.

Visit the following page to view undergraduate Public Health electives: [http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory](http://catalog.uab.edu/undergraduate/schoolofpublichealth/#courseinventory)
Approved Electives:

Freshman
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
FYE | 1 EH 102 | 3 |
EH 101 | 3 BY 101 | 3 |
MA 105 | 3 BY 102 | 1 |
Core Area III course | 4 Core Area IV course | 3 |
Core Area II course | 3 Core Area II course | 3 |
Core Area IV course | 3 |
--- | --- | --- |
14 | 16 |

Sophomore
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
PUH 201 | 3 PUH 204 | 3 |
PUH 202 | 3 PUH 250 | 3 |
Core II Area course | 3 Core Area II course | 3 |
Core Area IV course | 3 Core Area IV course | 3 |
General Elective | 3 General Elective | 3 |
--- | --- | --- |
15 | 15 |

Junior
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
PUH 210 | 3 PUH 302 | 3 |
Concentration course | 3 Concentration course | 3 |
PUH 220 | 3 Concentration course | 3 |
General Elective | 6 General Elective | 6 |
--- | --- | --- |
15 | 15 |

Senior
First Term | Hours | Second Term | Hours
--- | --- | --- | ---
PUH 307 | 3 PUH 495 | 3 |
Concentration course | 3 Concentration course | 3 |
Concentration course | 3 General Elective | 9 |
General Elective | 6 |
--- | --- | --- |
15 | 15 |

Total credit hours: 120

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  - AFS-Aerospace Studies Courses (p. 323)
  - ANTH-Anthropology Courses (p. 324)
  - ARA - Arabic Courses (p. 328)
  - ARH-Art History Courses (p. 329)
  - ARS-Art Studio Courses (p. 330)
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  - AST-Astronomy Courses (p. 336)
  - BMD-Biomedical Sciences (p. 337)
  - BME-Biomedical Engineering Courses (p. 338)
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  - EDH-Education Honors Courses (p. 368)
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  - EDT-Educational Technology Courses (p. 369)
  - EDU-Education Courses (p. 369)
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AAS-African American Studies Courses

Courses

AAS 100. African American Studies Seminar. 1 Hour.
AAS 100 is an initial course that introduces new majors and minors to the field and the African American Studies Program. Emphases will be placed on exploring the history and development of the AAS Program, major and minor requirements, internship and service learning opportunities and career options. Required of all new majors & minors.

AAS 165. Jazz Styles: History and Appreciation. 3 Hours.
American jazz with emphasis on instrumental and vocal performers, jazz bands, and combos. Development of big band, swing, and popular music.

AAS 200. Introduction to African-American Studies. 3 Hours.
Examination of seven core areas of African American Studies: History, Religion, Social Organization, Politics, Economics, Creative Production, and Psychology. Emphasizes major thematical theoretical and critical discourses of Black Studies, and its emergence as a political/social movement and discipline. Relates the latter to the complexity and diversity of contemporary movements such as Civil Rights, Free Speech, Black Power, and Afro-centricism. Majors and minors in African American Studies should complete this course before enrolling in any higher level AAS course. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area II: Humanities.

AAS 201. Honors Introduction to African American Studies. 3 Hours.
An advanced study of African American Studies as a discipline. Examines the seven core areas of the field with an emphasis on the major theories, critical discourses, and the emergence of Black Studies as a field of inquiry.

AAS 220. History of Sport: The African American Experience. 3 Hours.
This course provides a socio-cultural and historical overview of the African American athletes (male and female) that contributed to sports as we know them today. Focus will begin on the historical figures that helped shape sports culture and will continue into discussions about the role African-Americans play in collegiate and professional sports today.

AAS 223. African-Amer Hist to Civil War. 3 Hours.
Survey of the African American experience from Pre-Colonial Africa to the End of the Civil War.

AAS 224. African American History Since 1865. 3 Hours.
Survey of late 19th century to present African American history.

AAS 250. Special Topics in African-American Studies. 3 Hours.
Specific topic in African American Studies.

Prerequisites: AAS 200 [Min Grade: C]

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- HE-Health Education Courses (p. 397)
- HIM-Health Information Management Courses (p. 397)
- HON-University Honors Program (p. 399)
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- HRP-Health Related Professions (p. 416)
- HUM-Humanities (p. 416)
- HY-History Courses (p. 416)
- IB-International Business Courses (p. 424)
- IS-Information Systems Courses (p. 424)
- ITL-Italian Courses (p. 425)
- ITS-International Studies Courses (p. 426)
- JPA-Japanese Courses (p. 426)
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- LING-Linguistics Courses (p. 434)
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- MA-Mathematics Courses (p. 436)
- ME-Mechanical Engineering Courses (p. 441)
- MESC-Marine Environmental Science Courses (p. 443)
- MG-Management Courses (p. 444)
- MK-Marketing Courses (p. 446)
- MSE-Material Science & Engineering Courses (p. 449)
- MS-Military Science Courses (p. 448)
- MT-Medical Technology Courses (p. 451)
- MU-Music Courses (p. 452)
- MUP-Music Performance Courses (p. 455)
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- NMT-Nuclear Medicine Tech Courses (p. 460)
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- SOC-Sociology Courses (p. 491)
- SPA-Spanish Courses (p. 494)
- STH-Science and Tech Honors Courses (p. 496)
- SW-Social Work Courses (p. 497)
- THR-Theatre Courses (p. 498)
- UASC - University Academic Success Center (p. 502)
- UNIV-University Courses (p. 502)
- WS-Womens Studies Courses (p. 503)
AAS 260. History of Afro-Latin America. 3 Hours.
This course surveys the history of those countries of Latin America, e.g. Cuba, Brazil and Colombia, that comprise the heart of the New World’s African diaspora, having received most of the roughly 10 million Africans brought to Latin American shores during the centuries-long transatlantic slave trade. It explores the dramatic experiences of Afro-Latin Americans including their roles in the destruction of slave systems, creation of nations based on democratic principles, and rise of vibrant multicultural societies.

AAS 290. Writing in African American Studies. 3 Hours.
Course offers students continued practice in reading, research, and writing central to academic investigation and to interdisciplinary approaches. Develops skills in writing across disciplines and critical thinking. Emphasizes readings on diverse, contemporary, and multicultural issues in African American Studies. Writing, Ethics and Civic Responsibility are significant components of this course.
Prerequisites: EH 101 [Min Grade: C] and EH 102 [Min Grade: C]

AAS 300. African American Music. 3 Hours.
Survey, history and appreciation of African derived music and its presence in the United States from its earliest forms in spirituals, blues and jazz to contemporary forms of be-bop, hip-hop, reggae, and rap.

AAS 301. History and Tradition of Gospel Music. 3 Hours.
The purpose of this course is to broaden the knowledge of American Gospel Music history and to identify the valuable contributions of this genre by studying its eras and major contributors.

AAS 310. Black Image: Screen and Television. 3 Hours.
History and definition of the image of the African-ancestored people in the United States through cinema and television.

AAS 311. Race and Representation in Media. 3 Hours.
The course critically assesses the depiction of race in various visual media presentations. It explores how race is projected in media and how these media structures can create, support stereotypes of race and perpetuate social inequalities.

AAS 320. African Identity/Personality. 3 Hours.
This course is a study of the African identity, personality, and the concept of “blackness” with particular emphasis on what it means to be black in America. An adequate discourse on the complexities of African American Studies requires a multi-disciplinary approach that considers the expansive nature of the African Experience in North America. Accordingly, any substantive intellectual and scholarly foundation for critically understanding the salient areas of this course require the application of cross-discipline areas of study involving race, culture, socioeconomics, history, African American political behavior, and psychosocial theories of development. Quantitative Literacy is a significant component of this course.

AAS 325. Black Psychology. 3 Hours.
This course examines and explores theory, research, and practice related to the study of psycho-social experiences from the worldwide view of Africans in America.

AAS 330. African Aesthetics and Traditional Religion. 3 Hours.
Prerequisites: AAS 200 [Min Grade: C]

AAS 335. The Psychology of Hip Hop. 3 Hours.
Psychology of Hip Hop uses hip hop music and culture as conceptual lenses for analyzing and interpreting the life experiences of people of African descent throughout the African diaspora. Drawing mainly on psychology as well as other social sciences, this course is intended to provide students with an understanding of the psycho-historical and psycho-social development of African Americans relative to hip hop culture. This course explores and examines the thesis that African American music is an expression of African American life. Thus hip hop music and culture serve as soundtracks that allow the opportunity to listen to and learn from this particular manifestation of what W. E. B. Du Bois called the souls/psychology of Black folk.

AAS 350. Research Methods in African American Studies. 3 Hours.
Research Methods in Africana Studies will introduce students to a general conceptual framework for ordering the social theories and methods that people of African ancestry have used to interpret and understand Africana life experiences.
Prerequisites: AAS 200 [Min Grade: C]

AAS 366. African American Literature II. 3 Hours.
Cultural values from James Baldwin in 1950s, through black nationalist, civil rights, and black feminist movements, to contemporary writers such as Ishmael Reed, Charles Johnson, and Toni Morrison.
Prerequisites: EH 101 [Min Grade: C] and EH 102 [Min Grade: C] and AAS 200 [Min Grade: C]

AAS 400. Seminar in African American Studies. 3 Hours.
Specific topic in African American Studies.

AAS 420. Public Health and Medical Issues in African Communities. 3 Hours.
This course introduces students to important health issues that face the African American community. The goals are to increase awareness and stimulate discussion about health problems facing African Americans, factors believed to cause, contribute or worsen these problems, and steps now taken to alleviate or eliminate these problems.
Prerequisites: AAS 200 [Min Grade: C]

AAS 448. African American Poetry Tradition. 3 Hours.
Development of African American poetry from its early works to the present, including Wheatley, Dumbar, Hughes, Brooks, and Angelou.
Prerequisites: EH 101 [Min Grade: C] and EH 102 [Min Grade: C]

AAS 490. African American Studies Internship. 3 Hours.
On campus and off campus training positions in fields utilizing cross disciplinary skills, with some positions offering external funding. Students should contact the Program Director for listings of available positions and application procedures. May be counted as elective only. Preq: Junior or senior standing as African American Studies major and approval of application. May be repeated once for credit. Permission of the Program Director is needed.
Prerequisites: AAS 200 [Min Grade: C]

AAS 493. Capstone Seminar. 3 Hours.
Specific topics vary...The course will provide an opportunity for students to reflect upon and to use the knowledge, skills and dispositions developed in previous African American Studies coursework. This course or AAS 495 required of all AAS majors. AAS 493 is ideally taken in the final undergraduate semester. Preq: 9 hours AAS coursework at the 400 level and permission of the Program Director. 3 hours.
AAS 495. Individual Studies. 3 Hours.
Specific topics vary. An individually designed course for semi-independent research or guided readings in areas and subjects that synthesize the African American Studies core areas. The course will provide an opportunity for students to reflect upon and use the knowledge, skills, and disposition developed in previous African American Studies coursework. This course or AAS 493 required of all AAS majors. AAS 495 is ideally taken in the final undergraduate semester. Consult Program Director for procedure to apply for this course.

AAS 497. Honors Seminar. 3 Hours.
The African American Studies Departmental Honors Program requires completion of a two course sequence. This first course in the sequence provides students with an overview of the research process. Students are taught the basics of research, statistical analysis and techniques of making a formal presentation of research. Under the guidance of the Program Director and faculty mentor, students are required to develop an honors research project.
Prerequisites: AAS 200 [Min Grade: B] and AAS 325 [Min Grade: B] and AAS 350 [Min Grade: B]

AAS 498. Honors Project. 3 Hours.
Under the guidance of the faculty mentor, students complete the project and make a formal presentation of the research.
Prerequisites: AAS 497 [Min Grade: B]

AC-Accounting Courses

Courses

AC 200. Principles of Accounting I. 3 Hours.
Basic concepts with focus on how accounting events affect financial statements. Emphasizes preparation, communication and use of external financial reports, accrual versus cash, receivables, payables, inventory, recording long-term operational assets, long-term liabilities, stockholders, equity, recording procedures, and financial statement analysis dealing with the benefits and risks associated with that information.
Prerequisites: BUS 110 [Min Grade: C]

AC 201. Principles of Accounting II. 3 Hours.
Basic concepts associated with internal reporting. Use of relevant information for planning, control, and decision making. Cost behavior, cost allocation, product costing, budgeting, responsibility accounting, and capital budgeting.
Prerequisites: AC 200 [Min Grade: C]

AC 300. Financial Accounting I. 3 Hours.
Review of the financial accounting system, and in-depth coverage of the environment of financial accounting, conceptual framework of financial accounting, financial statements, time value of money, cash, receivables, and inventory.
Prerequisites: AC 200 [Min Grade: B] and AC 201 [Min Grade: C]

AC 304. Accounting Information Systems. 3 Hours.
Transaction processing cycles of accounting system; internal control, development, and control of information systems; emerging development of information technology.
Prerequisites: (AC 201 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 305. Professional Development in Accountancy. 1 Hour.
This course will introduce students to the accounting profession, the recruitment process for internships and entry-level positions in accounting; the traditions, expectations and ethical demands of the profession; and the availability of diverse career options.

AC 310. Financial Accounting II. 3 Hours.
Continuation of AC 300. Inventories, plant assets, intangible assets, current liabilities, long-term debt and stockholders' equity.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 320. Financial Accounting Survey. 3 Hours.
Accounting cycle, financial accounting theory, financial statements, cash and receivables, inventories, plant assets, intangible assets, current liabilities, long-term debt, stockholders' equity, investments, income taxes, pension benefits, leases, error correction, and reporting of accounting changes and earnings per share. Not open to accounting majors.
Prerequisites: (AC 201 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 401. Cost Accounting. 3 Hours.
Basic theory and procedures involving cost determination, analysis, and control. Cost allocations, application of overhead, budgeting, standard costs, job order, process and by-product costing, spoilage, and quantitative techniques. Junior standing required.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 320 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (AC 320 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 402. Income Taxation I. 3 Hours.
Fundamentals and basic concepts of taxation of various entities, with emphasis on federal income taxation of individuals.
Prerequisites: (AC 201 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 413. Internal Auditing. 3 Hours.
Theory and practice of internal auditing and application of internal auditing principles and techniques to selected audit problems.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 414. Governmental and Not-for-Profit Accounting. 3 Hours.
Budgetary and fund accounting as applied to municipalities, other governmental units, and institutions operating as nonprofit entities.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 423. External Auditing. 3 Hours.
Study of the external audit function and the essential standards that govern audit practice.
Prerequisites: AC 413 [Min Grade: C](Can be taken Concurrently) and AC 310 [Min Grade: C] and GPAT and GPAO 2.00) or AC 413 [Min Grade: C] and GPAT and GPAO 2.00) or AC 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

AC 430. Financial Accounting III. 3 Hours.
Prerequisites: (AC 310 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
AC 440. International Accounting: From a User’s Perspective. 3 Hours.
Development of international accounting knowledge needed to make informed decisions in global business environment.
Prerequisites: AC 200 [Min Grade: C] and AC 201 [Min Grade: C]

AC 441. International Accounting: Study Abroad. 3 Hours.
Development of international accounting knowledge needed to make informed decisions in global business environment through study abroad.
Prerequisites: AC 440 [Min Grade: C]

AC 452. Income Taxation II. 3 Hours.
Completion of fundamentals of taxation for individuals. Basic concepts and laws applicable to partnerships and corporations. Tax research techniques and tax planning concepts.
Prerequisites: (AC 402 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 402 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 464. Accounting Internship. 3 Hours.
Work experience enabling students to better integrate academic knowledge with practical applications by exposure to accounting practice and business environment.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAT and GPAO 2.50) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.50)

AC 472. Forensic Accounting and Information Tech Auditing. 3 Hours.
Introduction to the practice of forensic accounting and its relationship to auditing in settings characterized by extensive reliance on information technology. An emphasis on audit methodology as applied to accounting information systems.
Prerequisites: (AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 473. Fraud Examination. 3 Hours.
Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse—its origins, perpetration, prevention, and detection.
Prerequisites: (AC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 474. Forensic Accounting Practicum. 1-3 Hour.
Work experience requiring the application of forensic accounting concepts and methods.
Prerequisites: (AC 472 [Min Grade: C] and AC 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPAU 2.00) or (AC 472 [Min Grade: C] and AC 473 [Min Grade: C] and LS 471 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 480. Advanced Financial Accounting. 3 Hours.
Business combinations, consolidated financial statements, multinational accounting, and partnerships.
Prerequisites: (AC 430 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 490. Advanced Topics in Accounting. 3 Hours.
Contemporary professional accounting issues. Preq: Permission of instructor.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

AC 495. Accounting Capstone. 3 Hours.
Course brings together in one setting the learned skills and knowledge needed in a professional career in accounting. Permission of the Accounting and Finance Department Chair required.
Prerequisites: (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and AC 310 [Min Grade: C] and AC 401 [Min Grade: C] and AC 402 [Min Grade: C] and AC 413 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (AC 300 [Min Grade: C] and AC 304 [Min Grade: C] and AC 310 [Min Grade: C] and AC 401 [Min Grade: C] and AC 402 [Min Grade: C] and AC 413 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

AC 499. Directed Readings. 1-3 Hour.
Readings and independent study in selected areas.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

AFS-Aerospace Studies Courses

Courses

AFS 101. Air Force Today. 1 Hour.
Topics relating to Air Force and national defense. Purpose, structure, and career opportunities in U.S. Air Force. Written communication.

AFS 101L. Leadership Laboratory I. 0 Hours.
Laboratory to accompany AFS 101.

AFS 102. Air Force Today. 1 Hour.
Interpersonal communication. Effective listening techniques; verbal and nonverbal communication. Practical exercises and group projects to demonstrate barriers to effective communication and techniques to overcome barriers.

AFS 103. The Air Force Today. 1 Hour.
Oral communication. Strategies, techniques, and delivery of effective oral presentations.

AFS 201. Development of Air Power. 1 Hour.
Historical survey of technological innovation in warfare. Emergence of air power; significance in war and national security policy implementation.

AFS 201L. Leadership Laboratory II. 0 Hours.
Laboratory to accompany AFS 201.

AFS 202. Development of Air Power. 1 Hour.
Leadership and followership traits in context of modern military force. Ethical standards of military officers and Air Force core values. Total quality management.

AFS 203. The Air Force Way. 1 Hour.
Advanced application of oral communication skills. Organization, research, delivery, and audience analysis for briefings and presentations. Group leadership problems designed to enhance interpersonal communication.

AFS 250. Field Training. 8 Hours.
Six-week training and evaluation course to select potential candidates for Professional Officer Course. Includes all topics in AFS 101, 102, 103, 201, 202, and 203. Rigorous physical training.

AFS 300. Field Training. 2 Hours.
Four-week training and evaluation course to select potential candidates for Professional Officer Course. Rigorous physical training.

AFS 301. Air Force Leadership and Management. 3 Hours.
Selected concepts, principles, and theories of quality Air Force leadership and management. Individual leadership skills and personal strengths and weaknesses as applied to Air Force environment.
ANTH 210. Monkeys and Apes. 3 Hours.
Behavior and social organization of humans' closest living relatives. Living primates and why they behave as they do.

ANTH 211. Human Evolution. 3 Hours.
Human organism's evolution as systemic whole. Process of human evolutionary change as depicted in behavior and fossil record.

ANTH 222. Prehistory of North America. 3 Hours.
Prehistoric America north of Mexico from terminal Pleistocene to early historic times.
Prerequisites: ANTH 101 [Min Grade: C]

ANTH 226. Archaeological Field School. 1-6 Hour.
Participation in all phases of excavation, laboratory study, and report preparation. Off campus.

ANTH 231. Archaeology of the Origins of Civilization in Egypt, Mesopotamia, and the Mediterranean. 3 Hours.
Development of complex society in the Fertile Crescent and surrounding lands in Egypt, Mesopotamia, and Mediterranean from origins of agriculture to Alexander the Great.

ANTH 235. Immigration Transnationalism and Diasporas. 3 Hours.
What happens to culture and the social organization of groups after they migrate from one country to another? This course focuses on two possible responses: (1) How immigrants assimilate to the host society through a process of becoming disorganized or uprooted and then reorganizing themselves in a new context, and (2) How immigrants, or transnationals are influenced by their persisting ties to their home countries and elsewhere.

ANTH 242. Peoples of the World/South America Indians. 3 Hours.
Ethnology of indigenous peoples of South America including ecological adaptation, social organization, religious systems, and culture change. Emphasis on lowland South Americans.

ANTH 244. Peoples of the World: Africa. 3 Hours.
Local and regional African cultures. Geographical, racial, and historical backgrounds; contemporary African social systems.

ANTH 245. Peoples of the World: Mediterranean. 3 Hours.
This course covers both the western part of the Ancient Middle East and the Mediterranean Area, first introducing Neolithic Europe and Turkey/Anatolia (e.g., Catal Huyuk; Stonehenge), but focusing on Bronze Age Greece, the Aegean, and Anatolia:ca. 3000-1200 BCE. This includes an examination of the Minoans and Mycenaeanas in the first part of the course (e.g., Knosso; Thera; Mycenae), and a look at the Hittites and Trojans in the second half of the semester (e.g., Hattusas; Troy), culminating with the Trojan War and Sea Peoples ca. 1200 BCE.

ANTH 248. Peoples of the World: Latin America. 3 Hours.
Holistic survey of cultures of Latin America from pre-Columbian times to present. Processes of cultural change (including revolution), ethnic group relations, and functioning of contemporary societies.

ANTH 262. Mythbusters! Arch hoaxes, doc. 3 Hours.
This course will provide an in depth examination of a number of known and not-so-well known archaeological hoaxes throughout history, allowing the class to explore the myriad of social, legal, and economic pressures which precipitated such discoveries. The course will explore subjects like the shroud of Turin, Atlantis, the Jesus Tomb, and the curse surrounding the discovery of King Tutankhamen's tomb in 1922. As part of the course, students will watch and evaluate a number of documentaries for the "truth" behind the story, and will follow ongoing media coverage of major archaeological discoveries.
ANTH 290. Study Abroad: Chilapa, Guerrero, Mexico. 3 Hours.
Orientation to and popular culture in Chilapa; Mexican history and ethnology, regional history and ethnology, and local economy and human ecology.

ANTH 292. Anthropology of Slavery. 3 Hours.
This course is a mixed format including, lectures, student projects, and potential fieldwork. The class will provide a broad cross-cultural perspective on different types of slavery that have existed across the globe (Americas, Africa, the Near East, Oceania) and examine slavery in the American South, especially Alabama. Issues of race, hierarchy, ethnicity, political, economy, religion, ideology, and social relations will be discussed.

ANTH 299. Contemporary Global Issues. 3 Hours.
This course explores anthropological perspectives, applications, and contributions to solving to contemporary world problems including: terrorism, warfare, genocide; global warming and sustainable development; global epidemic disease and new pandemics; torture and human rights abuses; global capitalism, sweatshops, and economic justice; poverty and hunger; illiteracy; child labor and child soldiers; and human population explosion.

ANTH 309. Egypt in the Age of the Pyramids. 3 Hours.
This course begins with the Prehistoric and Predynastic-Early Dynastic roots of Ancient Egypt, and focuses upon the pyramid building age of the Old through Middle Kingdoms, and concludes with the Second Intermediate Period (i.e., Dynasties 1-17: ca. 3200-1550 BCE). It will focus broadly on the archaeology, history, art, architecture, religion, and literature of this period. It is designed to stand independently of its companion course Imperial and Post-imperial Egypt.

ANTH 310. Imperial and Post-Imperial Egypt. 3 Hours.
This course focuses mainly on Egypt's imperial period, spanning the New Kingdom (Dynasties 18-20: ca. 1550-1069 BCE), and concludes with a shorter overview of the post-imperial period of Egypt's encounters with the Kushite (Nubian), Assyrian, Neo-Babylonian, and Persian empires (Dynasties 21-31: ca. 1069-332 BCE). It focuses broadly on the archaeology, history, art, architecture, religion, and literature of this time span and is designed to stand independently of its companion course Egypt in the Age of the Pyramids.

ANTH 318. Anthropology of Development. 3 Hours.
Effects of Western penetration of indigenous societies and role of anthropologists in development projects in Third World.

ANTH 319. Food and Culture. 3 Hours.
This course is designed to present a broad view of the role of food in human culture through time and in a variety of geographic settings, offering students and opportunity to reflect on the cultural meanings of food in human life. Class lectures, assigned readings, and films will be used to enhance each student's understanding of the subject from a cross-cultural perspective. We will examine the biological basis of diet, how foodways develop and change, how and why anthropologists study diet, and variations in foodways around the world.

ANTH 320. Comparative Religion. 3 Hours.
The cross cultural study of ritual, religion, the sacred, and the spiritual is unique to the discipline of anthropology (which investigates humans and their culture across space and time). Concepts of the sacred and what we refer to as "religion" can be found in all cultures both past and present. For the purposes of this course the term religion may be viewed broadly as human beliefs and practices associated with supernatural or non-empirical beings and forces, including spirituality, witchcraft, cults, magic, and superstition. The goal of this course is for students to gain a broad understanding of religion cross culturally, to closely examine case studies of particular religious practices in their culture context, to explore theories of religion and their evolution, and to achieve a perspective of cultural relativism and a greater appreciation of human diversity.

ANTH 329. Egypt: Archeological Field Study. 3-6 Hours.
Two week field school in Egypt. Students will visit Egypt old and new, including Islamic Cairo, Coptic churches, the pyramids of Giza, Alexandria, the tombs and temples of Luxor (Valley of the Kings), Aswan (Abu Simbel), and an archaeological excavation. Experience Egyptian folklore through dance and musical performances.

ANTH 330. Nationalism Ethnicity and Violence. 3 Hours.
Social and cultural analysis of ethnicity and nationalist ideologies particularly where these have led to violent confrontations within modern nation-states. Primordialist versus constructionist theories of difference; varying weight to be attributed to political, historical, and cultural factors in study of nationalism; politics of culture versus culture of politics.

ANTH 340. Archeology and History Bible Lands. 3 Hours.
Archaeology and History of the Bible Lands. Examination of region spanning modern Syria, Lebanon, Israel, and Jordan from 10,000-585 BC.

ANTH 351. Anthropology of Human Rights. 3 Hours.
Examination of conceptual, political, and legal aspects of human rights from an anthropological perspective. Topics considered may include: state violence; the history of human rights claims; the opposition of cultural rights and human rights claim; human rights as a form of political discourse; human rights practices in select contemporary settings.

ANTH 353. Primatology. 3 Hours.
Biology, behavior, and distribution of living nonhuman primates. Field studies of old-world monkeys and apes.

ANTH 355. Archaeology of Alabama. 3 Hours.
This course will explore the archaeology of Alabama with an emphasis on current regional research which may include historical archaeology, industrial archaeology, and the archaeology of Native Americans. It may include both field and class room components.

ANTH 357. Anthropology of Gender. 3 Hours.
Roles of women, men, and other genders from a cross-cultural perspective; includes bio-cultural approaches to sex and gender and changing gender roles over time. Course involves substantial writing component in essay examinations and research papers. Writing is a significant component of this course.

ANTH 360. Ecological Anthropology. 3 Hours.
Interactions among behavioral, technological, organizations, and ideological features of human cultures that serve to adapt societies to their physical environment. 3 hours in ANTH required.

ANTH 365. Economic Anthropology. 3 Hours.
Comparative ethnology of economic organizations and processes in non-industrial societies. Precapitalist social settings and transformations of precapitalist economies that have occurred, and are occurring, as result of development and expansion of industrial capitalism.
ANTH 370. Music in World Cultures. 3 Hours.
Characteristics of musical styles in various cultures throughout world.
Prerequisites: MU 120 [Min Grade: C]

ANTH 371. Service Learning in Anthropology. 3 Hours.
This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.

ANTH 400. Human Osteology. 3 Hours.
This class focused on the identification of human skeletal remains. As a combined laboratory and lecture course it provides the groundwork for much of the work in biological and forensic anthropology.

ANTH 401. Forensic Anthropology. 4 Hours.
Applied human osteology, emphasizing ability to identify age, sex, and population type of skeletal material. Effects of disease and behavior on bones.

ANTH 404. Human Rights, Peace, and Justice. 3 Hours.
This course offers an introductory exploration of theories, concepts, and issues involved in the study of peace, human rights, social justice, and conflict resolution. It considers the relationship of human rights to achieving peace with justice, including the role of international law. It introduces the concepts of positive peace, human security, and global interdependence. Finally, the course includes an examination and critique of anthropological approaches to peace and the associated practical applications to real world conflicts, rights violations, and global challenges.

ANTH 407. Peace Ethology. 3 Hours.
This course provides insights into causes, mechanisms, development, function, and evolution of peaceful behavior in humans and nonhuman animals. The course shows how studying the role of peaceful behavior in the survival and propagation of animal life has direct significance for improving our understanding of the evolved abilities for peace in humans.

ANTH 408. Conflict Resolution in Cross-Cultural Perspective. 3 Hours.
This course explores conflict and conflict management from an anthropological perspective. It includes ethnographic examples from around the globe. Do all societies engage in war? How are conflicts handled in other cultures? The course will challenge a Western view that humans are naturally violent and warlike and consider some interesting anthropological controversies. Specific topics considered include conflict models, origins of war, conflict resolution, socialization of conflict styles, third party mediation, and ways to reduce violence and prevent war.

ANTH 409. Peace through Global Governance. 3 Hours.
Global governance represents a new dimension in social organization. Anthropology has much to contribute to understanding it. Global governance has the potential to promote social progress and human development, the protection of human rights, peace, and human security. The course examines security—military, collective, and human security—and the evolution of international identity, norms, values, and laws and their contributions to the development of global civil society.

ANTH 411. Advanced Field Archaeology. 6 Hours.
Archaeological field and laboratory techniques, including excavation, surveying, and artifact analysis and description; general problems of archaeological interpretation.
Prerequisites: ANTH 101 [Min Grade: C]

ANTH 412. Peaceful Societies and Peace Systems. 3 Hours.
This course explores peaceful societies, some of which are internally peaceful and some of which do not make war, as well as peace systems, that is, clusters of neighboring societies that do not make war on each other and possibly not with any outside groups either. The main questions addressed in the course are: How do peaceful societies and peace systems manage to successfully keep the peace? What lessons do peaceful societies and peace systems hold for creating a less violent and warless world?

ANTH 413. Peace & Environmental Sustainability. 3 Hours.
By highlighting that ecology sets the stage for the social and economic domains, this course traces our interdependence with nature and makes the case that sustaining the natural conditions that are essential for the functioning of the ecosystem on which our lives depends equals sustaining peace. The course takes a positive peace perspective on environmental sustainability goals and methods to achieve them.

ANTH 414. Prehistory of War and Peace in North America. 3 Hours.
This course explores the origins, development, and consequences of conflict and warfare among the prehistoric and early historic indigenous cultures of North America, as well as the complementary processes of cooperation and peace-making. Archaeological, biological, and ethnohistorical sources are utilized to understand the ways in which war and peace were carried out among Native American cultures from the earliest evidence of human occupation to European contact and beyond. Both indigenous and European practices of war and peace are considered.
Prerequisites: ANTH 101 [Min Grade: C] or ANTH 106 [Min Grade: C]

ANTH 415. Ethnographic Research Methods. 6 Hours.
Ethnographic Field Methods classroom instruction and practical experience in techniques of ethnographic fieldwork, including participant observation, household surveys, structured and unstructured interviewing, and genealogies.

ANTH 416. War & Peace in Ancient Mesopotamia. 3 Hours.
“War & Peace in Ancient Mesopotamia” (ca. 10,000 - 323 BCE) begins with an introduction to the advent of farming, urban life, various crafts, writing, and other innovations in the region of the “Two Rivers,” namely the Tigris and Euphrates’ flood plain. It proceeds with the rise and fall of early state complex societies and empires in the Bronze and Iron Ages, and terminates in the Persian period. Although providing much focus on diverse issues dealing with war, alliances, diplomacy, treaties, and peace, this course also integrates a comprehensive background context and overview of other aspects of past societies in this region, including history, archaeology, language, literature, religion, architecture, art, material culture, and trade. The course material is introductory, with no specific prerequisite, but a prior enrollment in either ANTH 245 (Peoples of the Mediterranean), or ANTH 340 (Archaeology & History of Bible Lands), is helpful since these courses introduce past societies from contemporary, adjacent regions frequently in direct contact with Ancient Mesopotamia.

ANTH 418. The Power of Nonviolence. 3 Hours.
This course introduces students to the theory and practice of nonviolence as a manner of social change and as a philosophy. The course explores some of the classic writings on nonviolence such as those by Tolstoy, Gandhi, and King as well as current research findings on the efficacy of nonviolent social change, for instances, the work of Sharp, Nagler, Ackerman, and Chenoweth. Readings, films, small group and whole class discussions, guest lectures by activists will contribute to an understanding of the necessary skills for practicing and promoting nonviolent social change. Students will develop projects and presentations that utilize an online nonviolence database.
ANTH 419. Religion, Reconciliation, & Forgiveness. 3 Hours.
This course examines the role of religion, spirituality, reconciliation, apology, and forgiveness in conflict situations, from the individual to the global. Topics include the role of religion in both war and peace. The course has a cross-cultural and inclusive dimension and goes well beyond Christianity to also consider Buddhism, Confucianism, Islam, and other religions. The spiritual dimensions of Gandhian nonviolence are also considered.

ANTH 420. Cultural Transformation: Our History, Our Future. 3 Hours.
The course will explore the significance of Eisinger's Partnership-Domination Model and the socio-cultural systems informed by it. The course will focus on the practical application of the partnership approach for promoting peace and human rights across social levels from the family, schools, community, upward to the global level. Consideration will be given to how to transform values, institutions, economics, and politics from domination to partnership.

ANTH 421. Technological Monitoring of Human Rights and Conflicts. 3 Hours.
This class will give students an overview of how humanitarian work intersects with innovation and technological advances. The class will introduce students to how social media, remote sensing technologies/drones, cell phones, open source, crowd sourcing, Big Data, cloud computing, the Internet, and sensors are all changing how we collect data and interpret the world around us, and how that information is revolutionizing humanitarian and conflict monitoring.

ANTH 422. Landscape Archaeology. 3 Hours.
The course will cover the techniques and strategies employed by archaeologists to reconstruct past landscape, which involves scientific testing, remote sensing, GIS, survey, excavation and environmental analysis. Examples will be drawn from projects across diverse landscape types in Europe, the Middle East, Africa, Central America and Asia. In-field and laboratory application of techniques will be emphasized.

ANTH 430. ZOOarchaeology. 3-6 Hours.
Methods and theories of zooarchaeological research are discussed in this lab/lecture course. Practical experience in processing, identification, and interpretation of animal bone remains from archaeological sites forms a large part of this class.
Prerequisites: ANTH 106 [Min Grade: C]

ANTH 432. Villains, Victims, & Vigilantes. 3 Hours.
This course examines ways in which the concepts of “rights” and “justice” are understood and enacted in local communities, particularly in regions of the world experiencing high rates of violent criminality. Beginning with a review of formal law and legal principles underlying state systems of justice, the course surveys settings in which dissatisfaction with state efforts to protect rights have induced communities to develop alternate policing and judicial institutions.

ANTH 434. Observing the Earth from Space. 3 Hours.
The course will give students the ability to analyze remotely sensed data from satellite images as part of the newly established Joint Programs for Remote Sensing and Health. Students will learn about the physics and mathematics behind remote sensing. They will also learn about a wide range of satellite images and techniques to analyze them via ERDAS Imagine, ER Mapper and other programs. Applications of remote sensing to a variety of fields will form a key component of the class. The course will culminate in a term project involving remote sensing applications to the UAB faculty-led initiatives in health, medicine, geography and anthropology. There will be a weekly lab component of the course.

ANTH 436. Community Internship. 3-6 Hours.
Application of anthropological approaches to efforts in public or private sector.

ANTH 437. Real World Remote Sensing Applications. 3 Hours.
This course will be offered as a research seminar focusing on real world applications of remote sensing technology. Students will work closely with UAB professors and scientists at NASA’s Marshall Space Flight Center in Huntsville doing original remote sensing research on new satellite datasets. These datasets cover diverse areas including terrorism, global warming, health, anthropology/archaeology, atmospheric studies, urban expansion and coastal management. Students will be responsible for analyzing the satellite imagery and presenting papers to NASA.

ANTH 438. The Conquest of Mexico. 3 Hours.
This course examines the Spanish conquest of Mexico from both Spanish and indigenous perspectives. It further surveys the institutionalization of Spanish control over the fallen Aztec Empire the broader intellectual and material consequences of the conquest.

ANTH 439. Ethnography of Mexico. 3 Hours.
Survey of the incorporation of rural Mexican communities into the country's developing industrial economy.

ANTH 442. Historical Archaeology. 3 Hours.
This course involves all stages of archaeological filed work at a historical archaeology site. Students will learn survey skills, excavation, mapping, recovery, and post-field analysis techniques.

ANTH 445. Medical Anthropology. 3 Hours.
This course explores the bio-cultural basis of health and cross-cultural variation in illness and healing which includes theoretical bases of medical anthropology, comparative health care systems, and social, political, and economic issues related to health care delivery around the globe.

ANTH 446. Explorers, Mummies and Hieroglyphs. 3 Hours.
This course provides a thematic approach to pharaonic Egypt in general, with one portion covering diverse aspects such as geography, an overview of the history of Dynasties 1-31, society and government, daily religion, mortuary religion, architecture, literature, the military, trade, economy, and daily life. Another portion of the course provides several documentaries regarding early to more recent explorers and Egyptologists (e.g., Belzoni; Champollion; Petrie; Carter; modern Egyptology) with written responses. The third part introduces Egyptian hieroglyphs in eight grammar classes and follow-up user-friendly, in-class exercises, aiming to enable students to translate basic hieroglyphic texts.

ANTH 447. Advanced Peace Studies. 3 Hours.
Intensive exploration of concepts and issues involved in the study of peace, social justice, nonviolence, and conflict resolution. Students will engage in an in-depth examination and critique of anthropological approaches to peace and the associated theoretical and practical problems and applications. ANTH 104 (Introduction to Peace Studies) is recommended before taking this class, but not required.

ANTH 450. Advanced Cultural Anthropology. 3 Hours.
Critical review of theoretical approaches in cultural anthropology.

ANTH 451. Advanced Archaeological Anthropology. 3 Hours.
This course examines the theoretical approaches of 20th century archaeology: historical, processual, and post-processual. This reading intensive seminar is focused on theory and its impact on practice and the development of the subdiscipline of archaeology relative to anthropology.
ANTH 452. Advanced Linguistic Anthropology. 3 Hours.
Historical development of theory and field practice of linguistics; acquisition, sociolinguistics, nonverbal communication, semiotics, and ethnosemantics; applied linguistics.
Prerequisites: ANTH 120 [Min Grade: C]

ANTH 453. Advanced Biological Anthropology. 3 Hours.
Human evolution and primatology; race; human genetics. Tasks performed by physical anthropologists.
Prerequisites: ANTH 102 [Min Grade: D]

ANTH 454. Biological Anthropology and Contemporary Issues. 3 Hours.
This course applies a biological anthropological perspective to explore what it means to be human and to develop critical perspectives on our culture, science, and media. How did humanity arrive in its current position? How do we understand human diversity? What can we learn from the differences among people, their overwhelming biological similarity, and their common humanity? How do we use this knowledge to build a sustainable future for ourselves?

ANTH 458. Human Sexuality. 3 Hours.
This course will explore human sexuality and gender from an anthropological perspective, including biological and cultural perspectives, as well as the areas where anthropology meets psychology. The evolution of sexual behavior in humans and in non-human primates will be examined, as well as how sexuality is embedded in socio-cultural context both across and within societies.

ANTH 459. Politics, Drugs and Society in Latin America. 3 Hours.
This course will examine the role of drug production and the drug trade in the economic and political life of Latin American societies. Viewed historically and ethnographically, the course will include coverage of the traditional uses of drugs in indigenous societies as well as the more recent globalization of the industry.

ANTH 460. Historical Ecology. 3 Hours.
This course explores the topic of Historical Ecology and examines the relationship between humans and their environments from the perspectives of history, anthropology, archaeology, ecology, and biogeography.

ANTH 467. Museum Studies. 3 Hours.
This course uses case studies, analysis of topical issues, and problem-based learning exercises to explore the many aspects of museum studies relevant to the administration and management of not-for-profit museums. This course provides an interdisciplinary introduction to museum work.
Prerequisites: ANTH 106 [Min Grade: C]

ANTH 468. Special Problems in Human Rights. 1-3 Hour.
Supervised study of specified topic area in Human Rights; defined problem explored in depth. Topics are determined by student and instructor interest.

ANTH 472. Special Problems in Anthropology. 3 Hours.
Supervised in-depth study of specified topic area; defined problem explored in depth; topics determined by student and instructor interest.

ANTH 474. Special Problems in Archaeology. 3 Hours.
Supervised in-depth study of specified topic area in archaeology. Topics determined by student and instructor interest.

ANTH 476. Special Problems in Biological Anthropology. 3 Hours.
Supervised study of specified topic area in biological anthropology. Topics determined by student and instructor interest.

ANTH 478. Special Problems in Linguistics. 3 Hours.
Supervised study of specified topic area in linguistics. Topics determined by student and instructor interest.

ANTH 488. Special Problems in Human Rights. 1-3 Hour.
Supervised study of specified topic area in Human Rights; defined problem explored in depth. Topics are determined by student and instructor interest.

ANTH 490. Special Problems in Cultural Anthropology. 3 Hours.
Supervised study of specified topic area; defined problem explored in depth; topics determined by student and instructor interest.

ANTH 492. Special Problems in Archaeology. 3,6 Hours.
Supervised in-depth study of specified topic area in archaeology. Topics determined by student and instructor interest.

ANTH 494. Special Problems in Linguistics. 3 Hours.
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.

ANTH 496. Special Problems in Biological Anthropology. 3 Hours.
Supervised, in-depth study of specified topic area in biological anthropology. Topic determined by student and instructor interest.

ANTH 497. Special Topics in Anthropology. 3 Hours.
Topics vary. See class schedule for topic.

ANTH 498. Honors Thesis Research. 3-6 Hours.
Independent development of research project.

ARA - Arabic Courses

Courses

ARA 101. Introductory Arabic I. 3 Hours.
This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Modern Standard Arabic (MSA) is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

ARA 102. Introductory Arabic II. 3 Hours.
This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where MSA Arabic is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

ARA 190. Study Abroad: Arabic. 1-6 Hour.
Approved novice level study abroad program in an Arabic-speaking country. Course of study will vary according to array of approved offerings and student interest. Permission of department chair required.

ARA 201. Intermediate Arabic I. 3 Hours.
This is a continuation of ARA 102. Emphasis is placed on reading authentic Arabic materials and communicative competence. There will be a focus on the meaning of sentences rather than words, which would enable the students to read and speak with more fluency and better comprehension. Students will not only engage in studying authentic Arabic materials (written, audio, and/or video, official forms, etc.), but are also required to evaluate them for others. They will also be guided to function in specific situations where they have to use only the target language to communicate their ideas and then write about them. Additionally, they will be exposed to some particular aspects of the cultures, customs, literary traditions and other artistic expressions of the Arabic-speaking world.
ARA 202. Intermediate Arabic II. 3 Hours.
This course focuses on enhancing students’ linguistic and cultural competence in the Arabic speaking-world. Class activities will include role-playing, individual student presentations and extramural group projects. While the class is focused on content instruction, attention will also be paid to Arabic Language through selected activities that enhance the students’ reading, writing, and conversational skills. Intermediate-high proficiency in reading, writing, listening and speaking Arabic is the targeted outcome.
Prerequisites: ARA 201 [Min Grade: C]

ARA 290. Arabic for Study Abroad. 1-6 Hour.
This study-abroad Arabic course aims at improving students’ oral fluency. It will help students develop intermediary conversational skills as they study in total immersion. The emphasis will be on efficient target language production at the intermediate level, as well as an oral and comprehension skills, communicative strategies, and the acquisition of vocabulary relating to a variety of domains. The course content will also include discussion and analysis of current cultural topics. Arabic 290 will be conducted entirely in Arabic.

ARA 299. Directed Readings in Arabic. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Arabic students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Arabic language and culture. Intermediate proficiency in reading, writing, listening and speaking Arabic is the targeted outcome.

ARA 390. Study Abroad: Arabic. 1-6 Hour.
Approved advanced level study abroad program in an Arabic-speaking country. Course of study will vary according to array of approved offerings. Permission of the department chair required.

ARA 399. Directed Readings: Arabic. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Arabic language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Arabic language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Arabic is the targeted outcome. 9 hours in Intermediate Arabic or equivalent and permission of the department chair required.

ARH-Art History Courses

Courses

ARH 101. The Art Experience. 3 Hours.
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of art materials and techniques. Study of original works of art in the Birmingham Museum of Art and architecture in metropolitan Birmingham. This course meets the Core Curriculum requirements for Area II: Fine Arts.

ARH 203. Ancient and Medieval Art. 3 Hours.
A survey of Prehistoric, Ancient, Near Eastern, Egyptian, Aegian, Greek, Roman, Hiberno-Saxon, Carolingian, Ottonian, Romanesque, and Gothic art. This course meets the Core Curriculum requirements for Area II: Fine Arts.

ARH 204. Early Modern-Contemporary Art. 3 Hours.
A Survey of Renaissance, Baroque, Eighteenth through Contemporary Art. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Fine Arts.

ARH 205. African/Native American/Oceanic Art. 3 Hours.
Significant monuments and styles of non-western cultures.

ARH 206. Survey of Asian Art. 3 Hours.
Art and culture of India, China, and Japan. This course meets the Core Curriculum requirements for Area II: Fine Arts.

ARH 405. African Art. 3 Hours.
Survey of the arts of Africa, ranging from Ancient Egypt through the contemporary period.
Prerequisites: ARH 203 [Min Grade: C]

ARH 409. Egypt in the Age of the Pyramids. 3 Hours.
This course spans the period 5000 B.C through 1550 B.C. (Predynastic and Dynasties 1-17), which encompasses Egypt's pyramid building age. It will focus broadly on the art, archaeology, history, architecture, religion, and literature of this period. It is designed to stand independently of its companion course Imperial and Post-Imperial Egypt.
Prerequisites: ARH 203 [Min Grade: C]

ARH 410. Imperial and Post Imperial Egypt. 3 Hours.
This course spans the years of 1550 B.C. to the Ptolemaic-Roman periods, which covers Egypt's glorious imperial era (New Kingdom: Dynasties 18-10) and its decline in Dynasties 21-31, with the rise of other empires and Macedonian and Roman control of Egypt. It focuses broadly on the art, archaeology, history, architecture, religion, and literature of this time span and is designed to stand independently of its companion course Egypt in the Age of the Pyramids.
Prerequisites: ARH 203 [Min Grade: C]

ARH 419. Arts of Death in the Middle Ages. 3 Hours.
The visual culture of death and the afterlife from the Roman catacombs to cadaver tombs, 300-1500.
Prerequisites: ARH 204 [Min Grade: C]

ARH 421. Italian Renaissance Art. 3 Hours.
The visual arts of the Italian Renaissance (1300-1550) in their historic context.
Prerequisites: ARH 204 [Min Grade: C]

ARH 422. The Birth of Painting: Portable Pictures Across Renaissance Europe. 3 Hours.
The emergence of modern easel painting, 1300-1600.
Prerequisites: ARH 204 [Min Grade: C]

ARH 423. Study Abroad: European Art. 3 Hours.
On-site study of art and architecture in Europe.

ARH 424. Northern Renaissance Art. 3 Hours.
The visual arts of the Northern Renaissance (1300-1600) in their historic context.
Prerequisites: ARH 204 [Min Grade: C]

ARH 430. Eighteenth-Century Art in Europe. 3 Hours.
Prerequisites: ARH 204 [Min Grade: C]

ARH 431. Seventeenth-Century Painting. 3 Hours.
Painting in Europe from Italian and Spanish Baroque through the Dutch Golden Age.
Prerequisites: ARH 204 [Min Grade: C]

ARH 435. Arts of Power in Early Modern Europe. 3 Hours.
The visual arts in service of kings, popes, and the people, 1300-1700.
Prerequisites: ARH 204 [Min Grade: C]
ARH 440. 19th-Century Art I: Neoclassicism and Romanticism. 3 Hours.
Painting, sculpture and graphic arts in Europe, 1780-1860.
Prerequisites: ARH 204 [Min Grade: C]

ARH 441. 19th-Century Art II: Impressionism and Post-Impressionism. 3 Hours.
Painting, sculpture, and graphic arts in Europe, 1860-1900.
Prerequisites: ARH 204 [Min Grade: C]

ARH 450. American Art to 1900. 3 Hours.
Painting, sculpture, and architecture in the U.S., with an emphasis on 19th Century.
Prerequisites: ARH 204 [Min Grade: C]

ARH 460. Twentieth-Century Art to 1945. 3 Hours.
Painting, sculpture, and architecture in Europe and the United States, 1900-1945.
Prerequisites: ARH 204 [Min Grade: C]

ARH 461. Modern Design. 3 Hours.
History of modern design. Will examine various design disciplines, design theory, as well as the relationships between design, fine art, architecture and popular culture.
Prerequisites: ARH 204 [Min Grade: C]

ARH 464. Art Since 1945. 3 Hours.
Painting, sculpture and architecture primarily in the United States, 1945 to present.
Prerequisites: ARH 204 [Min Grade: C]

ARH 465. Aspects of Contemporary Art. 3 Hours.
Topics in contemporary art, ca. 1970 to the present. Course offerings will vary from year to year and will study a specific historical moment, medium, theme, or subject.
Prerequisites: ARH 204 [Min Grade: C]

ARH 467. Modern Architecture. 3 Hours.
History of modern architecture, covering examples from the late 18th century to the present and emphasizing the United States.
Prerequisites: ARH 204 [Min Grade: C]

ARH 468. Race and Representation. 3 Hours.
History of 20th-Century African American art in context of contemporary theories of identity and issues of diversity, and in relation to African art. Includes study of objects in the Birmingham Museum of Art. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: ARH 204 [Min Grade: C]

ARH 470. Tomb Art in East Asia. 3 Hours.
What is the purpose of a tomb? How do its structure and décor convey ancient perceptions of death? Who are the occupants, and how did they envision their journey into the afterlife? This course is a survey of the funerary arts of China, Korea, and Japan. By investigating tombs, shrines, sarcophagi, wall paintings, and grave goods throughout East Asia, we will gain a deeper understanding of ancient religions, social structures, ethnic identities, and cross-cultural interactions. Lectures will be supplemented by several visits to the Museum's Asian collections.
Prerequisites: ARH 206 [Min Grade: C]

ARH 471. Topics in Asian Cinema. 3 Hours.
This course offers students an introduction to a vital aspect of contemporary Asian culture, recognizing that film can be an important focus of contemporary, cultural commentary and critique. The course presumes no prior knowledge of Asia or cinema and its artistic tradition. The goal of the course is to view and discuss, as a class, approximately ten films, emphasizing an understanding of their cultural background and an appreciation of their aesthetic merits as films and cultural settings in Asia. Attendance at weekly screenings is mandatory. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: ARH 206 [Min Grade: C]

ARH 472. Buddhist & Hindu Art in India to 1200. 3 Hours.
This course explores the environments of worship and devotion particular to India's major indigenous religious traditions, from their earliest expressions in approximately the fifth century BCE through to the arrival of Islam in India, ca. 1200. We will examine aesthetic conventions, religious ideals, and urban cultures by focusing on the sculpture and architecture traditions of Hinduism, Buddhism, and Jainism.
Prerequisites: ARH 206 [Min Grade: C]

ARH 473. Japanese Prints/Printmakers. 3 Hours.
A history of Japanese block prints and printmakers from seventeenth through twentieth centuries.
Prerequisites: ARH 206 [Min Grade: C]

ARH 474. Landscape and Image in East Asia. 3 Hours.
This course surveys the major traditions of landscape art in East Asia. We will explore the ways in which places and spaces are transformed into famous places and sacred sites and consider the critical role played by visual representation in this process. Major topics include the relationship between landscape and power, cultural memory, literature, mythology, seasonality, travel, and literati culture. We will examine the functions of landscape art in various cultural, geographical, and temporal contexts of East Asia. We will look at landscape painting in China from the Tang through the Ming dynasties and consider the complex processes of cultural dissemination and adaptation by looking at the reception of Chinese landscape painting tradition in Korea and Japan.
Prerequisites: ARH 206 [Min Grade: C]

ARH 475. Japanese Art. 3 Hours.
Art and culture, Neolithic era through nineteenth century.
Prerequisites: ARH 206 [Min Grade: C]

ARH 477. Piety and Power: Art in India after 1200. 3 Hours.
This course looks at the arts of India after 1200, when Indian art and culture was increasingly influenced and altered by religious and secular powers from outside the subcontinent. We will examine Islamic art and architecture under the patronage of various Sultanate traditions, and finally the Mughals, who expressed their power and piety in monumental architecture and extensively illustrated books. We will also consider the influence of Europeans in South Asia, culminating with the colonial project of the British Raj. Ongoing negotiations between these newly-arriving groups and Indians older, indigenous traditions will be studied. Throughout the course we will dissect the categories of knowledge about South Asia and its art that were constructed primarily by the British, considering, for example, the usefulness of dividing India’s art history into categories of “Hindu,” “Islamic,” “European,” and etc.
Prerequisites: ARH 206 [Min Grade: C]
ARH 478. Buddhist Arts of East Asia. 3 Hours.
Survey of art and architecture created for Buddhist religious purposes in China, Japan, and to a lesser extent Korea and Central Asia. The course will include a brief overview of Buddhist monuments in South Asia, study of the iconography of Buddhist images in graphic and sculptural media, and analysis of a variety of Buddhist styles in painting, sculpture, and architecture.
Prerequisites: ARH 206 [Min Grade: C]

ARH 479. Study Abroad: Art & Culture of South Asia. 3 Hours.
This course allows students to become immersed in the art and culture of Asia through direct experience in the field. Focus will primarily be on South Asia but may vary with each course offering to include Nepal, Tibet, and Southeast Asia. Preliminary lectures in Birmingham and significant written assignments required.

ARH 480. Art Criticism and Theory. 3 Hours.
A topics course on subjects in art criticism and theory. The specific focus will vary by instructor and may emphasize either non-Western or Western theories, criticisms, and approaches.
Prerequisites: ARH 204 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 481. Special Topics: Early Modern Art. 3 Hours.
Special topics in the arts of the Early Modern period in the Western art tradition. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: C] or ARH 204 [Min Grade: C]

ARH 482. Special Topics: Modern Art. 3 Hours.
A special topics course on subjects in the Modern period in the Western tradition, beginning in the later eighteenth century. Specific course topics will vary by semester.
Prerequisites: ARH 204 [Min Grade: C]

ARH 483. Special Topics: Gender and the Visual Arts. 3 Hours.
Topic will vary, depending on instructor. This course will address ways in which gender has affected the history of artistic practice and patronage. It will consider such issues as the gendering of pictorial practice and space, strategies of representing gendered subjects, and the impact of women as patrons of art and architecture.

ARH 484. Special Topics: Contemporary Art. 3 Hours.
Special topics in the arts of the Contemporary period in the Western Art tradition. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: C] or ARH 204 [Min Grade: C]

ARH 485. Special Topics: Museum Studies. 3 Hours.
Museum operation; organization and preparation of exhibitions; cataloging objects in collection; experience with UAB Institute of Visual Art and Birmingham Museum of Art.
Prerequisites: ARH 204 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 486. Special Topics: South Asia. 3 Hours.
Special topics in the arts of South Asia. Subject will vary with each offering.
Prerequisites: ARH 206 [Min Grade: C]

ARH 487. Special Topics: Field Study. 3 Hours.
Trips to prominent museums and galleries in United States. Preliminary lectures in Birmingham and significant written assignments required.
Prerequisites: ARH 204 [Min Grade: C]

ARH 488. Special Topics: East Asian Art. 3 Hours.
Special topics in the arts of East Asia. Subject will vary with each offering.
Prerequisites: ARH 206 [Min Grade: C]

ARH 489. Professionalism, Project Management and Entrepreneurship. 3 Hours.
This capstone professional development course will provide students with knowledge and experience in the intersection of art and business for career in the arts. Students will conduct research, write about art and prepare materials and gain valuable insight into the inner workings of a career in the arts and identify your options and learn how to survive in a continually evolving marketplace. The course aims to familiarize students with ongoing theoretical, methodological and tactical issues in volved in art making and art historical scholarship. Offered each fall. Should be taken at the senior level.
Prerequisites: ARH 204 [Min Grade: C] or ARH 203 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 490. Seminar: Art Theory. 3 Hours.
Seminar in Art Theory. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: C] or ARH 204 [Min Grade: C] or ARH 206 [Min Grade: C]

ARH 491. Independent Study. 3-4 Hours.
Project proposed by student and approved by Art History instructor.

ARH 492. Museum/Gallery Internship. 3 Hours.
Through active participation in the daily operations of a museum, gallery, or art space, students will acquire direct working knowledge of a cooperating art institution. Students will be required to work at the institution a minimum of 10 supervised hours per week during the term.

ARH 493. Seminar: South Asian Art. 3 Hours.
Seminar in the arts of South Asia. Subject will vary with each offering.
Prerequisites: ARH 206 [Min Grade: C]

ARH 494. Seminar: East Asian Art. 3 Hours.
Seminar in the arts of East Asia. Subject will vary with each offering.

ARH 495. Seminar: Early Modern Art. 3 Hours.
Seminar in Early Modern Art. Subject will vary with each offering.
Prerequisites: ARH 203 [Min Grade: C] or ARH 204 [Min Grade: C]

ARH 496. Seminar: Modern Art. 3 Hours.
Seminar in Modern Art. Subject will vary with each offering.
Prerequisites: ARH 204 [Min Grade: C]

ARH 497. Seminar: Contemporary Art. 3 Hours.
Seminar in Contemporary Art. Subject will vary with each offering.
Prerequisites: ARH 204 [Min Grade: C]

ARH 498. AEIVA Internship. 3 Hours.
The AEIVA Intern Team will participate in all phases of daily gallery operations, ranging from curatorial practices, exhibition design, video/photographic documentation and production, technical and analytical writing, graphic design, etc. This team will act as a support staff for the AEIVA curatorial/ administrative staff in a hands-on museum/gallery work environment. May be repeated to a maximum of 6 semester hours.

ARH 499. Honors Thesis. 3 Hours.
For students accepted into honors program in art history. Directed study in art history, in which student works with a faculty mentor to write an extensive research paper on a topic of the student's choice. Recommended to be taken at the senior level, the semester prior to graduation. Permission of instructor required. ARH 489 recommended.

ARS-Art Studio Courses
Courses

ARS 100. Drawing Foundations. 3 Hours.
Students will investigate the fundamentals of drawing in order to learn the elements and principles of art, to improve their dexterity and visual perception, and build skill for advanced arts practice.

ARS 101. Two-Dimensional Design Foundations. 3 Hours.
The course provides students with a foundational knowledge of two-dimensional creative media and an understanding of working with the elements and principles of art and design.

ARS 102. Three-Dimensional Design Foundations. 3 Hours.
The course provides students with a foundational knowledge of three-dimensional media and an understanding of working with form, space, mass, volume and the manipulation of physical art media.

ARS 103. Digital Imaging & Design Foundations. 3 Hours.
An introduction into the digital means of image capturing, creation, manipulation and research, and the broadcast and output of these files in art and design practice with the use of the Macintosh system and utilities.

ARS 104. Four-Dimensional Design Foundations. 3 Hours.
This course introduces the fundamental principles of 4D design through a survey of concepts, techniques and technological practices. Basic concepts of art and design will be taught with the use of computers, video and sound equipment. Concepts of time, motion and ephemeral nature will be explored. In focusing on the relations between space, time and motion the 4D course extends and supplements the other Foundations courses and prepares students to continue their work with art and design. Individual projects and group collaboration are expected. Historical context of media arts is provided through in-class video screenings, presentations and readings.

ARS 110. Visual Literacy Foundations. 3 Hours.
This course will provide students with the knowledge and experience necessary to understanding, creating, analyzing, evaluating, and interpreting visual imagery. Students will engage with print and online imagery as well as visiting art museums and creating their own visual images. They will also curate a collection of images that comprises their course project, along with writing visual criticism, and actively participating in hands-on class activities.

ARS 195. Special Topics in Studio Art: Intro (non-art majors). 1-3 Hour.
Specialized introductory studio problems in Studio Art for non-art majors. Subject will vary with each offering.

ARS 200. Experiential Drawing. 3 Hours.
This course will expand students’ knowledge of drawing and will explore a variety of approaches and media to improve their creative practice. Students will engage in active research of their individual creative practice as well as collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 110 [Min Grade: C]

ARS 210. Experiential Painting. 3 Hours.
This course will introduce the discipline of painting through creative explorations, development of skills and understanding of materials use. Students will engage in active research of their individual creative practice and collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 110 [Min Grade: C]

ARS 220. Experiential Sculpture. 3 Hours.
This course will introduce the discipline of sculpture through creative explorations, development of skills and understanding of materials use. Students will engage in active research of their individual creative practice and collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 110 [Min Grade: C]

ARS 230. Experiential Ceramics. 3 Hours.
This course will introduce the discipline of ceramics through creative explorations and development of skills and materials use. Students will engage in action research of their creative practice and collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C]

ARS 240. Experiential Printmaking. 3 Hours.
This course will introduce the discipline of printmaking through creative explorations and development of skills and material use. Students will engage in action research of their creative practice and collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C]

ARS 250. Experiential Graphic Design. 3 Hours.
This course will introduce the discipline of graphic design through creative explorations and development of skills and material use. Students will engage in action research of their creative practice and collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 110 [Min Grade: C]

ARS 260. Experiential New Media. 3 Hours.
This course will introduce the discipline of new media through creative explorations, development of skills and material use. Students will engage in action research of their creative practice and collaboration experiences. Media practices including sound, animation and video capturing, as well as experimental projection techniques for the fine arts will be taught. Students will work with dedicated audio and video equipment to learn the basics of sound editing and capturing video footage. Dedicated projects such as in camera editing, montage and stop motion animation will allow students to build upon video editing skills. Historical context of media arts is given through screenings, readings and response papers. Technical workshops are given throughout the semester.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C]

ARS 270. Experiential Photography. 3 Hours.
This course will introduce the discipline of photography through creative explorations and development of basic skills and material use. Students will engage in action research of their creative practice and collaborative experiences.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 110 [Min Grade: C]

ARS 280. Creativity and Imagination. 3 Hours.
This course will provide students with a practical and theoretical basis for creative practice in art and design, exploring issues of creativity, imagination, and innovation through direct experience, discussions, and studying the work of notable innovators in historical and contemporary contexts.
ARS 295. Special Topics in Studio Art: Beginning. 1-3 Hours.
Specialized beginning studio problems in Studio Art. Subject will vary with each offering.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 105 [Min Grade: C]

ARS 300. Drawing - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of drawing.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 200 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 301. Drawing - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of drawing.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 200 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 302. Drawing - Special Topics 3. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of drawing.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 200 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 310. Painting - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of painting.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 201 [Min Grade: C] and ARS 280 [Min Grade: C] and ARS 102 [Min Grade: C]

ARS 311. Painting - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of painting.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 210 [Min Grade: C] and ARS 280 [Min Grade: C] and ARS 102 [Min Grade: C]

ARS 312. Painting - Special Topics 3. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of painting.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 210 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 320. Sculpture - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of sculpture.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 220 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 321. Sculpture - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of sculpture.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 220 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 330. Ceramics - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of ceramics.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 230 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 331. Ceramics - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of ceramics.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 230 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 332. Ceramics - Special Topics 3. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of ceramics.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 230 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 340. Printmaking - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of printmaking.

**Prerequisites:** ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 240 [Min Grade: C] and ARS 280 [Min Grade: C]
ARS 341. Printmaking - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of printmaking.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 240 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 342. Printmaking - Special Topics 3. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of printmaking.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 240 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 350. Graphic Design - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of graphic design.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 250 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 351. Graphic Design - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of graphic design.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 250 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 352. Graphic Design - Special Topics 3. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of graphic design.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 250 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 360. New Media - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of new media.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 260 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 361. Survey of Animation. 3 Hours.
This course will expand upon creative ability and depth of expression using digital imaging tools. Students will learn the fundamental vocabulary of animation, such as spacing and timing, motion cycles, exaggeration, and staging. Students will apply technical and aesthetic knowledge in the completion of a series of animation projects, culminating in a creative student directed final project. Historical context of animation history and its role in the art world will be given providing emphasis on experimental and underground animation. In-class video screenings and readings will accompany each animation project. One on one tutorials will be provided as necessary.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 260 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 362. Fabrication Laboratory. 3 Hours.
This course will expand upon creative ability and depth of expression using digital imaging tools. Students will be introduced to software and production tools used for designing and fabricating objects. This technology will be used in conjunction with sound and video installations. Fabrication tools may include, but are not limited to, micro-controllers, laser etching and 3D printing. Students will work in a collaborative environment to produce unique, customized projects for sound and video applications. Historical context of digital fabrication is given through screenings, readings and response papers.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 260 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 370. Photography - Special Topics 1. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of photography.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 270 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 371. Photography - Special Topics 2. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of photography.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 270 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 372. Photography - Special Topics 3. 3 Hours.
Topics vary each semester. This course provides students with opportunities to engage in a range of methods, materials, sources, concepts and dialogue related to the discipline of photography.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 270 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 395. Special Topics in Studio Art: Intermediate. 3 Hours.
Specialize studio art problems at the intermediate level. Subject will vary with each offering.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 105 [Min Grade: C]
ARS 400. Advanced Drawing. 3 Hours.
Advanced studies in drawing with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 300 [Min Grade: C]

ARS 410. Advanced Painting. 3 Hours.
Advanced studies in the discipline of painting with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 310 [Min Grade: C] and ARS 311 [Min Grade: C] and ARS 312 [Min Grade: C]

ARS 420. Advanced Sculpture. 3 Hours.
Advanced studies in the discipline of sculpture with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 320 [Min Grade: C] and ARS 321 [Min Grade: C] and ARS 322 [Min Grade: C]

ARS 430. Advanced Ceramic Sculpture. 3 Hours.
Advanced studies in the discipline of ceramics with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 330 [Min Grade: C] and ARS 331 [Min Grade: C] and ARS 332 [Min Grade: C]

ARS 440. Advanced Printmaking. 3 Hours.
Advanced studies in the discipline of printmaking with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 340 [Min Grade: C] and ARS 341 [Min Grade: C] or ARS 342 [Min Grade: C]

ARS 450. Advanced Graphic Design. 3 Hours.
Advanced studies in the discipline of graphic design with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 350 [Min Grade: C] and ARS 352 [Min Grade: C] and ARS 351 [Min Grade: C]

ARS 459. Graphic Design Field Internship. 3 Hours.
Work in approved graphic design office under guidance of field supervisor and Department of Art and Art History instructor.
Prerequisites: ARS 350 [Min Grade: C] and ARS 351 [Min Grade: C]

ARS 460. Advanced New Media. 3 Hours.
Advanced studies in the discipline of new media with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 360 [Min Grade: C] and ARS 361 [Min Grade: C] and ARS 362 [Min Grade: C]

ARS 470. Advanced Photography. 3 Hours.
Advanced studies in the discipline of photography with an emphasis on in-depth individually generated projects. Students will focus on professional development and portfolio preparation.
Prerequisites: ARS 370 [Min Grade: C] and ARS 371 [Min Grade: C] and ARS 372 [Min Grade: C]

ARS 489. Professionalism, Project Management and Entrepreneurship. 3 Hours.
This capstone professional development course will provide students with knowledge and experience in the intersection of art and business for career in the arts. Students will conduct research, write about art and prepare materials and gain valuable insight into the inner workings of a career in the arts and identify your options and learn how to survive in a continually evolving marketplace. The course aims to familiarize students with ongoing theoretical, methodological and tactical issues in involved in art making and scholarship. Offered each fall. Should be taken at the senior level.

ARS 490. Independent Study in Studio Art. 1-9 Hour.
Students plan a course of study, meeting times and expectations in cooperation with a faculty member.

ARS 491. B.F.A. Exhibition. 3 Hours.
B.F.A. students plan, prepare and present an exhibition of work during final spring semester under the direction of a faculty member of the students choosing. Course meeting times and expectations are developed with the faculty.

ARS 492. Studio or Gallery Internship. 3 Hours.
Through active participation in the daily operations of a museum, gallery, studio, or art space, students will acquire direct working knowledge of a cooperating art institution. Students will be required to work at the institution a minimum of 10 supervised hours per week during the term.

ARS 495. Special Topics-Interdisciplinary. 3 Hours.
Interdisciplinary and inter-media approaches to art making. Courses offer integrated, multidimensional approach to art-making. Topics vary each semester.
Prerequisites: ARS 100 [Min Grade: C] and ARS 101 [Min Grade: C] and ARS 102 [Min Grade: C] and ARS 103 [Min Grade: C] and ARS 104 [Min Grade: C] and ARS 110 [Min Grade: C] and ARS 280 [Min Grade: C]

ARS 498. AEIVA Internship. 3 Hours.
The AEIVA Intern Team will participate in all phases of daily gallery operations, ranging from curatorial practices, exhibition design, video/photographic documentation and production, technical and analytical writing, graphic design, etc. This team will act as a support staff for the AEIVA curatorial/ administrative staff in a hands-on museum/gallery work environment. May be repeated to a maximum of 6 semester hours.

AS-American Studies Courses

Courses

AS 201. Studies in American Culture. 3 Hours.
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other “texts” from art, music, industrial and technological developments, folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society, including native Americans, African American, immigrants and women.

AS 202. Studies in American Culture. 3 Hours.
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other texts from art, music, industrial and technological developments, and folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society, including Native Americans, African Americans, immigrants, and women.
AS 301. Studies in American Culture. 3 Hours.
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other texts from art, music, industrial and technological developments, and folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society including Native Americans, African Americans, immigrants, and women.

AS 401. Senior Seminar in American Studies. 3 Hours.
Topics of national and regional interest from any discipline but sufficiently broad to allow focus on specific intellectual problems using analytical skills and interdisciplinary methods learned in Core Curriculum courses, required elective courses, and chosen major. Should be taken during senior year.
Prerequisites: AS 201 [Min Grade: D] and AS 202 [Min Grade: D]

ASEM - Advanced Safety Engineering and Management

Courses

ASEM 461. Occupational Health & Safety Management Systems. 3 Hours.
Prerequisites: MG 302 [Min Grade: C]

ASEM 462. Hazard Identification and Risk Assessment. 3 Hours.
Criticality of proactive hazard identification and risk assessment for mitigation of serious workplace incidents. Techniques include Preliminary Hazard List (PHL), Preliminary Design Hazard Analysis (PHA), System Hazard Analysis (SHA), Subsystem Hazard Analysis (SSHA). Management's role in establishing policies and guidelines for acceptance of residual risk.
Prerequisites: MG 302 [Min Grade: C]

ASEM 463. Incident Investigation and Root Cause Analysis. 3 Hours.
Human error and error provocative environments. System design for the “failing human.” Rasmussen’s model of Drift to Danger and Reason’s “Swiss Cheese Model.” Analysis techniques include five why, fishbone, event trees and fault tree analysis (FTA). Case studies heavily emphasized.
Prerequisites: MG 302 [Min Grade: C]

Focus on ANSI/ASSE Z10-2012 and ISO 18001.
Prerequisites: MG 302 [Min Grade: C]

AST-Astronomy Courses

Courses

AST 101. Astronomy of the Universe. 3 Hours.
Survey of the universe of matter and energy. Interpretation of observations to develop a self-consistent view of the universe, basic physical laws and structures, cosmic history and evolution. Quantitative Literacy is a significant component of this course. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

AST 102. Astronomy of Stellar Systems. 3 Hours.
Mechanisms and processes of universe and interrelationships as systems, including nature of stars and galaxies: formation, interior processes, including energy generation, evolution, and galaxies as systems. Lecture and laboratory. Quantitative Literacy is a significant component of this course. Requires concurrent enrollment in AST 112 laboratory. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

AST 103. Astronomy of the Solar System. 3 Hours.
Descriptive and interpretive approach to solar and interplanetary phenomena, comets, and cometary/meteor relationships, asteroids and planetesimals, planetary surfaces, atmospheres, and interior structures. Physical law governing the solar system and quest for understanding its history and evolution, including formation. Lecture. Requires concurrent enrollment in AST 113 laboratory. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

AST 105. Extraterrestrial Life. 3 Hours.
Interdisciplinary treatment (astronomy, chemistry, biology, planetary science, communications, and information sciences) of the universe as habitat, cosmic chemistry of molecules and evolution, environmental requirements, origin and occurrence of life, search for evidence, intelligence, communication, and contact. Lecture and laboratory. Concurrent enrollment in AST 115 laboratory required. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

AST 111. Astronomy of the Universe Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 101. Quantitative Literacy is a significant component of this course. Must take with AST 101 to receive credit.
Prerequisites: AST 101 [Min Grade: D](Can be taken Concurrently)

AST 112. Astronomy of Stellar Systems Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 102. Quantitative Literacy is a significant component of this course. Must take with ST 102 to receive credit.
Prerequisites: AST 102 [Min Grade: D](Can be taken Concurrently)

AST 113. Astronomy of the Solar Systems Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiments illuminate topics presented in AST 103. Must take AST 103 to receive credit.
Prerequisites: AST 103 [Min Grade: C](Can be taken Concurrently)
AST 115. Extraterrestrial Life Laboratory. 1 Hour.
Laboratory experience illuminates topics presented in AST 105. Must take AST 105 to receive credit. This course meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: AST 105 (Can be taken Concurrently)

BMD-Biomedical Sciences

Courses

BMD 150. Introduction to the Biomedical Sciences. 1 Hour.
Introduction to career paths within the Biomedical Sciences. Topics will address student needs and interests and current trends in the Biomedical Sciences. Emphasis will be placed on developing an individualized educational plan based on a student’s academic and professional interests.

BMD 201. Contemporary Issues in Biomedical Sciences. 1 Hour.
A survey of current policy topics and industry trends in biomedical sciences, health, and medicine.

BMD 202. Survey of the Biomedical Sciences Literature. 1 Hour.
Techniques for searching, retrieving, reading, and analyzing the expert information used by biomedical researchers and health professions practitioners.

BMD 300. Laboratory Techniques in Biotechnology I. 2 Hours.
Basic laboratory techniques in biotechnology utilizing a lab notebook, basic lab instruments, and making solutions. Basic molecular biology and mammalian cell culture techniques used in studying gene regulation.
Prerequisites: CH 117 [Min Grade: C] and CH 117R [Min Grade: N] and CH 118 [Min Grade: C] or CH 119 [Min Grade: C]

BMD 310. Clinical Anatomy and Histology. 4 Hours.
Exploration of the functional anatomy of the human body through gross and microscopic studies of cells, tissues, and organ systems; survey of body systems; correlations between the structures and functions of the body’s various systems; association of major embryonic developmental events with functional gross anatomy.
Prerequisites: BY 123 [Min Grade: C]

BMD 315. Clinical Physiology and Pharmacology for Health Professions I. 4 Hours.
Basic concepts of physiology and pharmacology related to human organ systems and drug categories; human physiological principles and their application to pharmacology; membrane physiology, muscle physiology, physiology of the autonomic nervous system and the cardiovascular system; application of physiologic principles to drug pharmacokinetic and pharmacodynamics models.
Prerequisites: CH 114 [Min Grade: C] and CH 115 [Min Grade: C] and CH 116 [Min Grade: C] and CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C]) and BY 123 [Min Grade: C] and BY 124 [Min Grade: C]

BMD 317. Clinical Physiology and Pharmacology for Health Professions II. 4 Hours.
Basic concepts of physiology and pharmacology related to human organ systems and drug categories; human physiological principles and their application to pharmacology; renal, respiratory, gastrointestinal and endocrine systems; application of physiological principles to drug pharmacokinetic and pharmacodynamics models.
Prerequisites: BMD 315 [Min Grade: C]

BMD 320. Survey of Cell Biology for Health Professions. 3 Hours.
Molecular and cellular biosciences from a highly-integrated systems perspective; principles of eukaryotic cell structure and function, macromolecules, gene expression, signaling, division, differentiation, energy transformation and metabolism in cells; endocytosis, intramembrane transport, protein targeting, organelle biosynthesis, protein sorting, exocytosis, cell shape, motility, and cell-to-cell interaction; signal transduction processes and cellular functions required for cell growth and programmed cell death.
Prerequisites: CH 114 [Min Grade: C] and CH 115 [Min Grade: C] and CH 116 [Min Grade: C] and CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C]) and BY 123 [Min Grade: C] and BY 124 [Min Grade: C]

BMD 330. Clinical Microbiology for Health Professions. 3 Hours.
Clinically-based study of bacteriology, parasitology, mycology, and virology and the human host response to each; mechanisms of microbial pathogenicity and complex interactions with the host that produce symptoms of disease.
Prerequisites: BMD 320 [Min Grade: C]

BMD 380. Research Methods and Scientific Literacy for the Biomedical Sciences. 3 Hours.
Introduction to basic research methodology; review of statistical methods in health professions research. Emphasis will be given to preparing students to critically evaluate medical and scientific literature as well as web-based materials.
Prerequisites: HCM 360 [Min Grade: C] or MA 180 [Min Grade: C] or QM 214 [Min Grade: C] or PY 216 [Min Grade: C] or PUH 250 [Min Grade: C]

BMD 400. Laboratory Techniques in Biotechnology II. 2 Hours.
Laboratory techniques used in biotechnology, including cloning genes into an expression vector; transforming into E. coli; and transfection into mammalian cells for study of gene regulation and expression.
Prerequisites: BMD 300 [Min Grade: C]

BMD 410. Clinical Biochemistry for Health Professions. 3 Hours.
Current concepts of human biochemistry and molecular biology; protein structure and function, enzymes, intermediary metabolism, biosynthesis of lipids, and utilization of lipids; special emphasis on the molecular basis of inherited genetic diseases, acquired diseases, and clinically-related biochemistry.
Prerequisites: CH 234 [Min Grade: C] and (CH 235 [Min Grade: C] or CH 236 [Min Grade: C]) and CH 237 [Min Grade: C] and (CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

BMD 420. Pathophysiology for Health Professions. 4 Hours.
Problem-oriented study of general disease processes and the major subdivisions of general pathology: cellular adaptations, tissue injury and renewal, neoplasia, environmental and nutritional pathology, and pediatric disorders; cellular alterations and inflammation, genetic, immunological, nutritional and circulatory disorders; effects of infection, chemical and physical agents, blood and vascular diseases, neoplasia and aging as they apply to selected organ systems.
Prerequisites: BMD 317 [Min Grade: C]

BMD 430. Clinical Immunology for Health Professions. 3 Hours.
Basic immunology and the fundamental principles relating to the immune response in normal and disease states; antigens, antibodies, cells and structures of the immune system; process of immunity, allergies, transplantation and diseases; emphasis on the genetics, mechanisms, and regulation of the immune system in human health and disease.
Prerequisites: BMD 320 [Min Grade: C]
BMD 475. Capstone Experience in the Biomedical Sciences. 4 Hours.
Mentored capstone project to explore an area of student interest demonstrating curriculum integration. The capstone project should culminate in a formal scholarly work. Senior Standing required.

BMD 490. Directed Readings in Biomedical Sciences. 1-3 Hour.
Directed readings and/or literature review under the direction of a faculty member. Approval of faculty sponsor and program director required.

BMD 495. Practicum in Biomedical Sciences. 1-6 Hour.
Course combines the practical workplace experience gained through an internship or service learning activity with a seminar component to guide reflective assessment of the total experience. Approval of faculty sponsor and program director required.

BMD 497. Directed Biomedical Sciences Research Studies. 1-6 Hour.
Students will conduct a field, laboratory, or literary study project culminating in a formal paper and/or presentation as directed by the supervising instructor. Approval of faculty sponsor and program director required.

### BME-Biomedical Engineering Courses

#### Courses

**BME 011. Undergraduate Coop/Internship in BME. 0 Hours.**
Engineering workplace experience in preparation for the student's intended career.

**BME 210. Engineering in Biology. 3 Hours.**
Application of engineering to the study of biology on the cellular and molecular level. Engineering solutions in genomics, proteomics, and nanotechnology to investigate cellular and molecular processes.

**Prerequisites:** BY 123 [Min Grade: C] and PH 222 [Min Grade: C] (Can be taken Concurrently) and BY 210 [Min Grade: C] (Can be taken Concurrently)

**BME 310. Biomaterials. 3 Hours.**
Introduction to wide range of materials used for biomedical applications. Physical, chemical and mechanical properties of biomaterials.

**Prerequisites:** MSE 280 [Min Grade: C] and BME 210 [Min Grade: C]

**BME 311. Biomaterials for Non-Majors. 3 Hours.**
Wide range of materials used for biomedical applications. Physical, chemical and mechanical properties of biomaterials.

**Prerequisites:** MSE 280 [Min Grade: C]

**BME 312. Biocomputing. 3 Hours.**
Introduction to computational techniques used in biomedical engineering.

**Prerequisites:** (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C]) and (EGR 265 [Min Grade: C] or MA 227 [Min Grade: C] and MA 252 [Min Grade: C]) and MA 260 [Min Grade: C] (Can be taken Concurrently)

**BME 313. Bioinstrumentation. 3 Hours.**
An introduction to instrumentation used to make biological and physiological measurements. Techniques include acquisition and analysis of bioelectric signals and several imaging modalities.

**Prerequisites:** EE 312 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])

**BME 314. Biocomputing. 3 Hours.**
Introduction to computational techniques used in biomedical engineering.

**Prerequisites:** (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C]) and (EGR 265 [Min Grade: C] or MA 227 [Min Grade: C] and MA 252 [Min Grade: C] and MA 260 [Min Grade: C]) (Can be taken Concurrently)

**BME 350. Biological Transport Phenomena. 3 Hours.**
Application of fluid mechanics to blood flow in the circulatory system; cardiovascular fluid mechanics, wall shear stress and the development of atherosclerosis, viscoelastic behavior of the arteries, non-Newtonian character of blood.

**Prerequisites:** BME 350 [Min Grade: C] and (CE 220 [Min Grade: C] or BME 333 [Min Grade: C])

**BME 401. Undergraduate Biomedical Engineering Seminar. 1 Hour.**
Undergraduate seminar.

**BME 408. Advanced Biological Transport Phenomena. 3 Hours.**
Application of fluid mechanics in blood flow in the circulatory system; cardiovascular fluid mechanics, wall shear stress and the development of atherosclerosis, viscoelastic behavior of the arteries, non-Newtonian character of blood.

**Prerequisites:** BME 350 [Min Grade: C] and (CE 220 [Min Grade: C] or BME 333 [Min Grade: C])

**BME 417. Engineering Analysis. 3 Hours.**
Solutions to engineering problems involving ordinary and partial differential equations; Laplace transform, power series, Bessel functions, Legendre polynomials, Fourier series, Fourier integral and transform, Sturm-Liouville and separation of variables.

**Prerequisites:** (MA 227 [Min Grade: C] and MA 252 [Min Grade: C]) or EGR 265 [Min Grade: C]

**BME 420. Implant-Tissue Interactions. 3 Hours.**
An overview of implant biocompatibility including tissue histology, histopathology of implant response and the regulatory process for medical devices. Emphasis placed on ethical issues related to design, development, and implementation of biomedical implants. Ethics and Civic Responsibility are significant components of this course.

**Prerequisites:** BME 310 [Min Grade: C] or BME 311 [Min Grade: C]

**BME 423. Living Systems Analysis. 3 Hours.**
Basic concepts and techniques of measurement processing and analysis of data from living systems. Statistics, analysis of variance and regression analysis. Emphasis is placed on writing lab reports in a style similar to research papers. BME 423L must be taken concurrently.

**Prerequisites:** BME 312 [Min Grade: C]

**BME 475. Capstone Experience. 4 Hours.**
Mentored capstone project to explore an area of student interest demonstrating curriculum integration. The capstone project should culminate in a formal scholarly work. Senior Standing required.
BME 423L. Living Systems Analysis Laboratory. 0 Hours.
Labs include blood flow data acquisition and analysis, implant biocorrosion testing, evaluation and analysis of cell proliferation, and apoptosis. The laboratory component of BME 423 and must be taken concurrently.

BME 435. Tissue Engineering. 3 Hours.
Principles underlying strategies for regenerative medicine such as stem-cell based therapy, scaffold design, proteins or genes delivery, roles of extracellular matrix, cell-materials interactions, angiogenesis, tissue transplantation, mechanical stimulus and nanotechnology.
Prerequisites: BME 310 [Min Grade: C] or BME 311 [Min Grade: C]

BME 443. Medical Image Processing. 3 Hours.
Fundamental topics of medical image processing to practical applications using conventional computer software.
Prerequisites: EGR 265 [Min Grade: C] or (MA 227 [Min Grade: C] or MA 252 [Min Grade: C]) and PH 222 [Min Grade: C]

BME 450. Computational Neuroscience. 3 Hours.
This course examines the computational principles used by the nervous system. Topics include: biophysics of axon and synapse, sensory coding (with an emphasis on vision and audition), planning and decision-making, and synthesis of motor responses. There will be an emphasis on systems approach throughout. Homework includes simulations.
Prerequisites: BME 312 [Min Grade: C]

BME 461. Bioelectric Phenomena. 3 Hours.
Quantitative methods in electrophysiology of neural, cardiac, and skeletal muscle systems.
Prerequisites: PH 222 [Min Grade: C] and BME 312 [Min Grade: C]

BME 471. Continuum Mechanics of Solids. 3 Hours.
Matrix and tensor mathematics, fundamentals of stress, momentum principles, Cauchy and Piola-Kirchhoff stress tensors, static equilibrium, invariance, measures of strain, Lagrangian and Eulerian formulations, Green and Almansi strain, deformation gradient tensor, infinitesimal strain, constitutive equations, finite strain elasticity, strain energy methods, 2-D Elasticity, Airy Method, viscoelasticity, mechanical behavior of polymers.
Prerequisites: EGR 265 [Min Grade: C] or (MA 227 [Min Grade: C] and MA 252 [Min Grade: C]) and (BME 333 [Min Grade: C] or CE 220 [Min Grade: C])

BME 475. Quantitative Biomechanics of Injury & Rehabilitation. 3 Hours.
Students will learn the material, mechanical, electrophysiological and energetic principles of human movement. Students will learn about the healthy nonimpaired system and compare to systems impaired by injury or disability for applications in rehabilitation.
Prerequisites: ME 215 [Min Grade: C]

BME 489. Undergraduate Research in Biomedical Engineering. 0 Hours.
Undergraduate research experiences in biomedical engineering.
Prerequisites: EGR 200 [Min Grade: C] or (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C]) and MA 125 [Min Grade: C] and PH 221 [Min Grade: C](Can be taken Concurrently)

BME 490. Special Topics in Biomedical Engineering. 3 Hours.
Special Topic in Biomedical Engineering.

BME 491. Individual Study in Biomedical Engineering. 1-6 Hour.
Individual Study in Biomedical Engineering.

BME 494. Honors Research I. 1-3 Hour.
Research experiences for undergraduates enrolled in the departmental honors program. The student should write a proposal and make a presentation based on the proposal.
Prerequisites: EGR 301 [Min Grade: C]

BME 495. Honors Research II. 1-3 Hour.
Research opportunities for undergraduate students in the Biomedical Engineering Honors Program. Research areas include cardiac electrophysiology, brain imaging, biomedical implants, and tissue engineering.
Prerequisites: BME 494 [Min Grade: C]

BME 496. Biomedical Engineering Honors Seminar. 1 Hour.
Must be enrolled in an Honors Program.

BME 498. Capstone Design I Product Development. 3 Hours.
Design and development of medical-products. Through experiential learning, students go through the early phases of engineering design innovation for medical products, starting with clinical immersion to determine a critical health-care need. Engineering students work in multi-disciplinary teams that include students from the School of Business to develop design concepts for both a client-based prototype and a commercializable version. Designs take into account client needs as well as legal, regulatory, and marketing requirements. Business ethics are also covered. Emphasis is placed on communication in both oral and written format to targeted audiences.
Prerequisites: BME 310 [Min Grade: C](Can be taken Concurrently) and BME 312 [Min Grade: C](Can be taken Concurrently) and BME 313 [Min Grade: C](Can be taken Concurrently) and BME 333 [Min Grade: C](Can be taken Concurrently)

BME 498L. Senior Design and Product Development Laboratory. 0 Hours.
Lab component for BME 498 Senior Design Product Development. Laboratory activities include break-out sessions for team discussions (Problem definition and brainstorming of solutions), training and use of computer design software (Creo, CES Edupak, ABAQUS), and machine shop training for prototype development. Must be taken concurrently with BME 498.

BME 499. Capstone Design II. 3 Hours.
Capstone design project; a continuation of BME 498. Through experiential learning, student teams consisting of engineering and business students complete the engineering design process for their client-based prototype incorporating engineering standards and realistic constraints. Student teams develop a business plan to present to potential business partners and product development teams from established companies. Additional skills learned in this part of the design process include: development of business proposals, project planning and scheduling, project execution and resource scheduling, communication of design, and interim and final design reviews. Emphasis is placed on communication of design and design justification in both an oral and written format to targeted audiences.
Prerequisites: BME 498 [Min Grade: C] and ME 102 [Min Grade: C]

BME 499L. Capstone Design II Lab. 0 Hours.
Exposure to engineering skills common to all senior design projects. Students working in teams solicit input from clients and instructions. The laboratory component of BME 499 and must be taken concurrently.

BUS-Business Courses
Courses

BUS 101. Introduction to Business. 3 Hours.
This course will enable students to understand the breadth of business opportunities and careers as well as assist in their transition to college and the Collat School of Business through the inclusion of First Year Experience (FYE).

BUS 102. Business Foundations. 3 Hours.
This course will enable students to understand the breadth of business opportunities and careers as well as introduce them to the Collat School of Business.

BUS 110. Essentials of Financial Literacy. 3 Hours.
An introductory course dealing with the mathematics of money and financial literacy. This course will cover such topics as simple and complex interest, taxes, consumer finance, retirement plans, insurance and risk management, cash flows, payroll and inventory.

BUS 300. Business Honors Research Methods. 3 Hours.
First of three required courses for students participating in the Collat School of Business Honors Program. Course provides student with an overview of leadership literature and with necessary research, writing and communication skills for successful participation in the Collat School of Business Honors Program.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

BUS 301. Business Honors Reading Seminar. 1 Hour.
This course will facilitate development of an acceptable Business Honors Thesis/Project Proposal to be submitted to the Collat School of Business Honors Committee by exposing students to a selection of books and periodicals that are not typically assigned in other courses. Book selections will vary from semester to semester. Students will read, discuss, and write a review of each assigned work. Preq: Acceptance into a UAB Honors Program or permission of instructor. May be repeated with permission of Honors Program Director.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

BUS 305. Professional Development for Today’s Workplace. 1 Hour.
This course prepares students for experiential learning and internship opportunities. Students will gain an understanding of networking, personal branding, career planning, strategic career search, interviewing techniques, salary negotiation, and professional etiquette in today’s global workplace.

BUS 310. Accounting and Finance for Nonbusiness Majors. 3 Hours.
An introduction to accounting, financial reporting and the basic principles of business finance. Not open to majors in the Collat School of Business.
Prerequisites: (BUS 102 [Min Grade: C] and GPAT and GPAO 2.00) or (BUS 102 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

BUS 311. Creating & Delivering Customer Value. 3 Hours.
An introduction of managerial and marketing principles used to create and deliver customer value in organizations.
Prerequisites: (GPAT and GPAO 2.00 and BUS 102 [Min Grade: C]) or (GPAT and GPAO 2.00 and BUS 102 [Min Grade: C]) or (GPAU 2.00 and GPAO 2.00 and BUS 102 [Min Grade: C])

BUS 350. Business Communications. 3 Hours.
Review of grammar and organization with emphasis on conventions, formats, and style of written business communication. Relies on both in and out of class writing assignments, research methods and analysis, and collaborative writing.
Prerequisites: (EH 102 [Min Grade: C] and GPAT and GPAO 2.00) or (EH 102 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

BUS 400. Business Honors Seminar. 3 Hours.
This course will facilitate completion of an accepted Business Honors Thesis/Project Proposal. Students conduct independent research and present work in progress. Acceptance to the Collat School of Business Honors Program required.
Prerequisites: (BUS 300 [Min Grade: C] and GPAT and GPAO 2.00) or (BUS 300 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

BUS 410. Integrating Business Functions. 3 Hours.
Course integrates various elements that impact the success of business enterprises. Not open to majors in the Collat School of Business.
Prerequisites: (GPAT and GPAO 2.00 and BUS 310 [Min Grade: C] and BUS 311 [Min Grade: C]) or (GPAU 2.00 and GPAO 2.00 and BUS 310 [Min Grade: C] and BUS 311 [Min Grade: C])

BUS 450. Strategic Management Capstone Experience. 3 Hours.
Senior seminar integrating functional business fields of accounting, economics, finance, information systems, management, marketing, production policy and decision making. This course is writing intensive and students must demonstrate an ability to write to appropriate audiences and incorporate pertinent external sources. Strong emphasis on ethical reasoning and decision-making and relating material to contemporary business events and issues. Must be senior in last term.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

BUS 495. Business Honors Seminar, I. 3 Hours.
Study of the strategy-setting process for a business or other complex organization with emphasis on role of chief executive officer and other leaders in that process. Research, analysis, communications and presentation skills practiced.

BUS 496. Business Honors Seminar, II. 3 Hours.
Continuation of BUS 495, overview of business ethics and emphasis on skills required to complete final work project for the Collat School of Business Honors Program. Good standing in the Collat School of Business Honors Program and second semester senior standing required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

BY-Biology Courses

Courses

BY 101. Topics in Contemporary Biology. 3 Hours.
Selected topics in the current understanding of biological systems, ranging from humans to ecosystems. Particular focus on scientific issues such as human diseases, genetic engineering, emerging infectious diseases, environmental causes of disease, and climate change, as well as analysis of these issues as presented in print and electronic media. NOTE: Not for biology majors or minors (with BY 102). This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

BY 102. Topics Contemporary Biology Laboratory. 1 Hour.
Experiments and demonstrations in contemporary biology with strong emphasis is placed on understanding the systems of the human body. Drawing and writing assignments will focus on the structure and function of the important systems of the human body. Quantitative Literacy is a significant component of this course.
Prerequisites: BY 101 [Min Grade: D](Can be taken Concurrently)
**BY 108. Human Population and the Earth's Environment. 3 Hours.**
Influence of human population on Earth's environment. Specific attention will be paid to environmental issues such as population growth, climate change, water and energy resources, pollution, waste disposal, plant and animal extinctions, and food resources. Strong emphasis will be placed on determining solution to the variety of environmental problems facing the earth. Lecture and film. Ethics and Civic Responsibility are significant components of this course.

**BY 109. Laboratory in Environmental Science. 1 Hour.**
Experiments on topics essential to study of environment and which reveal complexity of solving environmental problems. Writing. Ethics and Civic Responsibility are significant components of this course.

**Prerequisites:** BY 108 [Min Grade: D](Can be taken Concurrently) or ENV 108 [Min Grade: D](Can be taken Concurrently)

**BY 111. Extended Topics in Contemporary Biology, 3 Hours.**
Selected topics in contemporary biology of interest to students with minimal background in biology. Topics presented in interactive lecture/discussion format. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences. NOTE: Only general elective credit for biology major or minor.

**Prerequisites:** BY 101 [Min Grade: D]

**BY 112. Ext Topics Contemporary Biology Laboratory. 1 Hour.**
Further examination, interpretation, and discussion of topics in BY 111. Independent and group projects. NOTE: Only general elective credit for biology major or minor.

**Prerequisites:** BY 111 [Min Grade: D](Can be taken Concurrently)

**BY 115. Human Anatomy. 4 Hours.**
Principles of vertebrate structure with emphasis on gross and microscopic human anatomy. Survey of human embryology and evolution. Lecture and laboratory.

**BY 115L. Human Anatomy Laboratory. 0 Hours.**
Human Anatomy Lab required with BY 115 lecture.

**BY 116. Introductory Human Physiology. 4 Hours.**
Integrated functions of human cells, tissues, and organ systems. NOTE: Only general elective credit for biology majors or minors. Lecture and laboratory.

**Prerequisites:** BY 115 [Min Grade: C] and (CH 105 [Min Grade: C] and CH 106 [Min Grade: C] or CH 115 [Min Grade: C] and CH 116 [Min Grade: C] or CH 114 [Min Grade: C] or CH 117 [Min Grade: C] and CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

**BY 116L. Introductory Human Physiology Laboratory. 0 Hours.**
Human Physiology Lab required with BY 116 lecture.

**BY 123. Introductory Biology I. 4 Hours.**
Basic chemistry, cell structure and function, metabolism, genetics, evolution, bacteria, and protists. For major in biology and related fields. Quantitative Literacy and Writing are significant components of this course. Lecture and laboratory. Eligible for, enrolled in, or have completed MA 106, MA 107, MA 125, or MA 126. This course meets the Core Curriculum requirements for Area III: Natural Sciences.

**Prerequisites:** MA 106 [Min Grade: C] (Can be taken Concurrently) or MA 107 [Min Grade: C] (Can be taken Concurrently) or MA 125 [Min Grade: C] (Can be taken Concurrently) or MA 126 [Min Grade: C] (Can be taken Concurrently) or (A02 25 and HSCG 3.50) or (A02 24 and HSCG 3.50) or (A02 25 and HSCG 2.50) or A02 26 or (S02 580 and HSCG 3.50) or (S02 560 and HSCG 3.50) or (S02 580 and HSCG 3.50) or S02 600 or MAC1 17 or MAAD 24

**BY 123L. Introductory Biology I Laboratory. 0 Hours.**
Introductory Biology I Lab required with BY 123 lecture.

**BY 124. Introductory Biology II. 4 Hours.**
The course emphasizes the transition from cell, to tissue, to organs in multicellular systems. Specific attention in the course will be paid to a survey of the various groups of plants, fungi, invertebrates and vertebrates. Strong emphasis will be placed on comparing the anatomy and physiology of the major organ systems in humans with those of other organisms. The course is designed to expand the students understanding of the process of scientific writing. Quantitative Literacy and Writing are significant components of this course. This course meets the Core Curriculum requirements for Area III: Natural Sciences.

**Prerequisites:** BY 123 [Min Grade: C]

**BY 124L. Introductory Biology II Laboratory. 0 Hours.**
Introductory Biology II Lab required with BY 124 lecture.

**BY 210. Genetics. 3 Hours.**
Principles and mechanisms of inheritance; structure, action, and regulation of genes; molecular genetic technology and application to human health and agriculture. Preparation for advanced courses in biology.

**Prerequisites:** BY 123 [Min Grade: C] and BY 124 [Min Grade: C]

**BY 213. Phage Genomics I. 4 Hours.**
Phage Genomics I is the first semester of a year-long lecture, laboratory, and web-enhanced course designed to provide an authentic research experience for undergraduate students. The course will address themes and techniques from across biology including microbiology, phage genetics, molecular biology, bioinformatics, and electron microscopy. Preqs: completed application (contact biology advisor) and permission of instructor. Freshmen and sophomores only.

**BY 214. Phage Genomics II. 4 Hours.**
This course is the second semester of a year-long lecture, laboratory, and web-enhanced class designed to provide an authentic research experience for undergraduate students. Students will learn the concepts and procedures for: annotating segments of a unique mycobacteriophage genome to indentify open reading frames, genes, and regulatory sequences; compare this bacteriophage genome to other sequenced bacteriophage genomes; compare and analyze amino acid sequences to reveal relationships between species; writing and presentation of scientific results. Freshmen and sophomores only.

**BY 216. Pathophysiology. 3 Hours.**
The course addresses epidemiologically relevant human pathologies resulting in disrupted homeostasis with an emphasis toward causal agents, mechanism of injury at the cellular and histological levels, pathogenic manifestations at the cellular, histologic, organ system and organismal levels, and applicable treatment strategies currently used in their medical detection, intervention and management. The course stresses modalities for human disease including genetic mutation, infection, neoplasia, immune dysfunction, preventable behaviors, endocrine alterations, and aging. The course specifically integrates the pathogenic model's impact on stress reactions, immune defenses, hematology, ventilation-respiration, cardiovascular perfusion, fluid balance, and nutrition. The course incorporates some remediation of the normal physiology and genetics required for homeostasis and introduces clinical profiling and case study learning.

**Prerequisites:** BY 116 [Min Grade: C] or BY 409 [Min Grade: D] or BY 124 [Min Grade: D] and (BY 261 [Min Grade: C] or BY 271 [Min Grade: C])
BY 245. Fundamentals of Scientific Investigation. 3 Hours.
The course covers the basics of scientific investigation with an emphasis on understanding methods of the scientific process, experimental design, data interpretation and presentation and scientific writing. Special emphasis will be placed on the use of data management and statistical packages to address the most common types of data analysis used to investigate specific applications in biology. Quantitative literacy is a significant component of this course. Recommend course is taken before junior year.
Prerequisites: BY 124 [Min Grade: C]

BY 255. Invertebrate Zoology. 4 Hours.
Invertebrate phyla, emphasizing evolutionary relationships, biological principles demonstrated by invertebrates, and significance of invertebrates in total ecology. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C]

BY 255L. Invertebrate Zoology Laboratory. 0 Hours.
Invertebrate Zoology Lab required with BY 255 lecture.

BY 256. Vertebrate Zoology. 4 Hours.
Comparative approach to the structure, function, ecology, life history, and conservation of vertebrates. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C] and CH 115 [Min Grade: C] and (CH 116 [Min Grade: C] or CH 114 [Min Grade: C])

BY 256L. Vertebrate Zoology Laboratory. 0 Hours.
Vertebrate Zoology Lab required with BY 256 lecture.

BY 260. Botany. 4 Hours.
Development, structure, physiology, and diversity of plants, emphasizing vascular plants. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C]

BY 260L. Botany Laboratory. 0 Hours.
Botany Lab required with BY 260 lecture.

BY 261. Introduction to Microbiology. 4 Hours.
Cell structure and function, microbial genetics, viruses, and epidemiology and infectious disease. NOTE: Cannot be applied toward requirements for a biology major. Lecture and laboratory.
Prerequisites: BY 116 [Min Grade: C] and BY 123 [Min Grade: C] or CH 107 [Min Grade: C](Can be taken Concurrently) and CH 108 [Min Grade: C](Can be taken Concurrently) or CH 235 [Min Grade: C] and CH 234 [Min Grade: C] or CH 236 [Min Grade: C] or CH 237 [Min Grade: C] and (CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

BY 261L. Introduction to Microbiology Laboratory. 0 Hours.
Introduction to Microbiology Lab required with BY 261 lecture.

BY 267. Tropical Ecology. 3 Hours.
Major tropical ecoregions; ecology of terrestrial, aquatic, and marine organisms. Major portion conducted at tropical field station in Caribbean. Lecture and field trips (May session, alternate years). Permission of Instructor required.
Prerequisites: BY 124 [Min Grade: D]

BY 268. Galapagos Ecology. 3 Hours.
An overview of the ecology of the Galapagos Island, with an emphasis on the ecology of terrestrial and marine organisms. Major portion of course conducted on the Galapagos Islands. Lecture & field trips. Permission of instructor required.
Prerequisites: BY 124 [Min Grade: D]

BY 269. Rain Forest Ecology. 3 Hours.
Physical and environmental factors that structure rain forest, biodiversity of life, and interactions of its organisms. Prominent biota. Major portion of course taught at tropical field station in Costa Rica. Lecture and field trips (May session, alternate years). Permission of instructor required.
Prerequisites: BY 124 [Min Grade: D]

BY 271. Biology of Microorganisms. 4 Hours.
Microbiology with emphasis on molecular aspects of microbial cell structure, function, and diversity. Host defense mechanisms, infectious disease, and microbial ecology. Preparation for advanced courses in biology. Lecture and laboratory.
Prerequisites: BY 210 [Min Grade: D] and CH 117 [Min Grade: D] and (CH 118 [Min Grade: D] or CH 119 [Min Grade: D])

BY 271L. Biology of Microorganisms Laboratory. 0 Hours.
Biology of Microorganisms Lab required with BY 271 lecture.

BY 280. Biology of Aging. 3 Hours.
Current understanding of aging, measurement of aging changes, theories of aging, and aging changes in various human systems.
Prerequisites: BY 123 [Min Grade: C]

BY 311. Molecular Genetics. 3 Hours.
Prokaryotic and eukaryotic gene structure and function.
Prerequisites: BY 210 [Min Grade: D]

BY 314. Embryology. 3 Hours.
Descriptive and experimental studies of vertebrate development at the molecular, cellular and tissue levels.
Prerequisites: CH 117 [Min Grade: D] and CH 118 [Min Grade: D]

BY 327. Histology. 4 Hours.
Microscopic anatomy of cells, tissues, and organs of animals; correlation of structure and function. Techniques and methodology. Lecture and laboratory.
Prerequisites: BY 115 [Min Grade: D] or BY 124 [Min Grade: D]

BY 327L. Histology Laboratory. 0 Hours.
Histology Lab required with BY 327 lecture.

BY 330. Cell Biology. 3 Hours.
Biological molecules and metabolic processes; energetics; synthesis and regulation of macromolecules; differential gene expression; membranes and organelles; cytoskeleton; cell cycle and growth of normal and neoplastic cells.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and CH 235 [Min Grade: C](Can be taken Concurrently) and CH 234 [Min Grade: C] or (CH 236 [Min Grade: C] or CH 237 [Min Grade: C] or CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

BY 362. Neurobiology. 3 Hours.
Biological basis of nervous system function. Comparative approach applying molecular, cellular, and systems concepts to nervous system function to examine electrical and chemical signaling, neural circuitry, and cellular basis of behavior and neural development (irregular offering).
Prerequisites: BY 409 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D]) and PH 201 [Min Grade: D]
BY 394. Biology Laboratory Teaching. 1-3 Hour.
Student will assist in instruction of a biology laboratory. Student is required to attend scheduled preparatory sessions each week, assist in teach assigned laboratory section, help develop student assignments such as examinations and/or practicals and assist the laboratory coordinator in other capacities as assigned. Students work under the direction of the course instructor and/or the laboratory coordinator. Student must have completed the course in which the student is assisting with a grade of B or higher. Permission of the instructor is required. May be repeated for credit to a maximum of three semester hours.

BY 395. Special Topics in Biology. 1-4 Hour.
This course will consider topics from the various disciplines in the biological sciences and the topic will differ each term. Course requirements may include lecture, laboratory, readings, discussion, reporting, and internships or fieldwork, which may be conducted on- or off-campus. May be taken more than once for credit.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 397. Advanced Directed Readings. 1-3 Hour.
Reading and independent study in selected areas under supervision of faculty sponsor. May be repeated for total of three semester hours credit. 12 semester hours of BY with BY GPA of 3.0 and permission of instructor required.

BY 398. Undergraduate Research. 1-3 Hour.
Research project under supervision of faculty sponsor. May be repeated for a total of 3 semester hours credit. 12 semester hours of BY with GPA of 3.0 and permission of instructor required.

BY 405. Microbial Physiology. 3 Hours.
Microbial structure and function, growth, metabolism, and regulation of cellular activity.
Prerequisites: BY 271 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 407. Microbial Ecology. 3 Hours.
Microorganisms in nature; interactions with each other and with environment.
Prerequisites: BY 271 [Min Grade: D]

BY 409. Principles of Human Physiology. 4 Hours.
The lecture and laboratory course uses humans as a model system to investigate physiological processes occurring at cell, tissue, organ, and system levels. Additionally the use of experimental examples and laboratory experiments and the interpretation of data will be used to understand all aspects of productivity. The class is designed to improve scientific writing skills related to research experiment. Writing and Quantitative Literacy are significant components of this course. Foundation in anatomy recommended (BY 115 or BY 256).
Prerequisites: BY 210 [Min Grade: D] and CH 237 [Min Grade: D] and CH 238 [Min Grade: D] or CH 239 [Min Grade: D]

BY 409L. Principles of Human Physiology Laboratory. 0 Hours.
Human Physiology Lab required with BY 408 and BY 409 lecture.

BY 410. Comparative Animal Physiology. 3 Hours.
Comparative examples to illustrate general principles of physiology; study of how animals function in their environment.
Prerequisites: BY 256 [Min Grade: D]

BY 411. Advanced Human Anatomy. 4 Hours.
This course is a detailed, advanced examination of gross human anatomy and histology. In a laboratory setting, students achieve course objectives by dissecting a human cadaver, and by observing prosected cadavers and casted models.
Prerequisites: BY 115 [Min Grade: C] or BY 124 [Min Grade: C] or BY 409 [Min Grade: C]

BY 416. Cellular Physiology. 3 Hours.
Biochemical and thermodynamic aspects of cellular energy metabolism. Foundation in physiology recommended (BY 124, BY 116, BY 409 or BY 410).
Prerequisites: BY 330 [Min Grade: D] and CH 237 [Min Grade: D]
(Can be taken Concurrently) and CH 238 [Min Grade: D](Can be taken Concurrently) or CH 239 [Min Grade: D]

BY 419. Reproductive Physiology. 3 Hours.
Comparative reproductive physiology in mammals, with emphasis on humans.
Prerequisites: BY 256 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 420. General Endocrinology. 3 Hours.
The central theme of this course is the role of hormone chemical messengers in the regulation of physiological processes. Topics include structure of endocrine cells and glands, hormone synthesis and chemistry, physiological effects of hormones, and mechanisms of hormone action. Emphasis is placed on vertebrate systems, but instructive invertebrate systems are also considered.
Prerequisites: BY 256 [Min Grade: D]

BY 426. Evolutionary Medicine. 3 Hours.
An evolutionary approach to issues relating to human health and disease.
Prerequisites: (BY 116 [Min Grade: C] or BY 409 [Min Grade: C]) and BY 330 [Min Grade: C]

BY 429. Evolution. 3 Hours.
The course includes the history of evolutionary thought and modern evolutionary theory. Discussions cover (but are not limited to) the history of life, mechanisms of evolutionary change, sexual selection, adaptation, speciation, and molecular evolution. Students will also be introduced to historical and contemporary studies of evolution on a wide variety of topics and organisms.
Prerequisites: BY 210 [Min Grade: D]

BY 431. Principles of DNA Technology. 3 Hours.
Manipulation of genes and their regulation; techniques used in recombinant DNA technology. Lecture.
Prerequisites: BY 210 [Min Grade: D] and BY 311 [Min Grade: D]

BY 432. Biological Information Resources. 3 Hours.
The National Center for Biological Information (NCBI) website is a treasure house of information and tools for researchers in all areas of modern Biology. The goal of this course is to provide guidance for students who wish to become familiar with the NCBI website through an online learning experience. They will learn many of the features available at this site and will gain experience using some of the tools. The course will be taught completely online and will consist of 1) Guidelines for navigating through NCBI, 2) Study guide questions for students to answer online, 3) NCBI tutorials with questions to be answered online, 4) Assignments with questions to be answered online, 5) Online exams.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C]
BY 433. Advanced Molecular Genetics. 3 Hours.
Molecular genetics of eukaryotic organisms, including analysis of the features and nature of eukaryotic genomes, genes, nucleosomes, and chromosomes; processes involved, such as transcription, splicing, transposition, and signal transduction. The role of molecular biology in cell growth and cancer. Lecture.
Prerequisites: BY 311 [Min Grade: D]

BY 434. Functional Genomics and Systems Biology. 3 Hours.
Systems biology is an inter-disciplinary study underlying complex biological processes as integrated systems of many interacting components. This course will give students a foundation in understanding complex biological interactions at the molecular, network and genomic level. This course will cover state-of-the-art high throughput established and novel approaches used in genome sequencing, transcriptomics, proteomics and metabolomics to obtain, integrate and analyze complex data. The students will also get familiar with knowledge on experimental perturbation of genomes, gene regulatory networks, comparative genomics and evolution, basic bioinformatics. This course will be a combination of text based lectures and discussions of the current literature relevant to Functional Genomics and Systems Biology.
Prerequisites: BY 210 [Min Grade: C]

BY 435. Natural History of Vertebrates. 4 Hours.
Lecture and field study of adaptations of vertebrate classes for survival in particular environments. Survey and classification of local vertebrates. Lecture and laboratory.
Prerequisites: BY 256 [Min Grade: C]

BY 435L. Natural History of Vertebrates Laboratory. 0 Hours.
Natural History of the Vertebrates Lab required with BY 435 lecture.

BY 437. Epigenetics. 3 Hours.
This course provides a survey of the field of epigenetics, introducing the student to the diverse areas of epigenetic research in a variety of eukaryotic systems. The course combines lectures with discussion of primary literature and research talks from invited faculty speakers working in epigenetics. In addition to providing an overview of the field of epigenetics, this course emphasizes working with primary scientific literature and the development of critical reading skills. Recommended that Molecular Genetics be completed prior to enrollment.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 440. Immunology. 3 Hours.
Immune system and functions of host humoral and cellular immune responses. Mechanisms of antigen and antibody reactions and basic immunological methods.
Prerequisites: BY 271 [Min Grade: C] and BY 330 [Min Grade: C]

BY 442. Experimental Phycology. 4 Hours.
The course uses Algae as a model system to investigate various experimental approaches to assessing productivity with specific emphasis placed on classification, respiration, photosynthesis, growth and nutrient limitation. Additionally the use of experimental examples and laboratory experiments and the interpretation of data will be used to understand all aspects of productivity. Designed to improve scientific writing skills related to research experiments. Writing and Quantitative Literacy are significant components of this course.
Prerequisites: BY 124 [Min Grade: C] and CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

BY 442L. Experimental Phycology Laboratory. 0 Hours.
Experimental Phycology Lab required with BY 442 lecture.
Prerequisites: BY 124 [Min Grade: C] and CH 117 [Min Grade: C] and (CH 118 [Min Grade: C] or CH 119 [Min Grade: C])

BY 448. Psychoneuroimmunology. 3 Hours.
How neuroendocrine and immune systems communicate with each other. Regulatory processes mediated by interactions between these systems and application to diseases.
Prerequisites: BY 440 [Min Grade: D]

BY 450. Plant Physiology. 4 Hours.
Metabolic activities and growth processes of plants, with emphasis on photosynthesis, respiration, germination, dormancy, and hormones; physiological phenomena associated with phases of development. Lecture and laboratory.
Prerequisites: BY 260 [Min Grade: D] and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 450L. Plant Physiology Laboratory. 0 Hours.
Plant Physiology Lab required with BY 450 lecture.

BY 451. Plant Biology. 3 Hours.
This course introduces to the basic concepts of plant biology including plant diversity, structure, physiology, metabolism, reproduction, genetics, molecular biology, evolution and ecology. It is targeted to Biology Majors and Biology Graduate Students. This class brings together knowledge and methodologies from a number of different disciplines to provide students with an intensive and comprehensive plant curriculum from the molecular to the organismal level.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 452. Field Botany. 4 Hours.
Plant identification and classification; consideration of phylogenetic systems. Lecture and laboratory.
Prerequisites: BY 260

BY 452L. Field Botany Laboratory. 0 Hours.
Field Botany Lab required with BY 452 lecture.

BY 453. Mycology. 4 Hours.
Fungi, including morphology, development, physiology, taxonomy, and phylogeny. Lecture and laboratory.
Prerequisites: (BY 260 [Min Grade: D] or BY 271 [Min Grade: D]) and CH 235 [Min Grade: D] and (CH 236 [Min Grade: D] or CH 234 [Min Grade: D])

BY 453L. Mycology Laboratory. 0 Hours.
Mycology Lab required with BY 453 lecture.

BY 460. Advanced Invertebrate Zoology. 3 Hours.
This course takes an in-depth look at aspects of the biology of the Echinodermata and Crustacea. The course format includes lectures, guest lectures, and student critiques of papers from the scientific literature. There is a field trip to Blunt Springs to search for eichinoderm fossils. Lecture and student projects.
Prerequisites: BY 255 [Min Grade: D]

BY 465. Limnology. 4 Hours.
Chemical and physical principles of lakes and streams; biology of freshwater and estuarine organisms. Lecture and laboratory.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D] or BY 260 [Min Grade: D]

BY 465L. Limnology Laboratory. 0 Hours.
Limnology Lab required with BY 465 lecture.
BY 467. Population Ecology. 3 Hours.
The course covers the structure and dynamics of populations with an emphasis on understanding how reproduction, mortality and dispersal interact to control fluctuations in population size and structure. Special emphasis will be placed on the use of computer models and interpretation of data to address specific applications in conservation biology and natural resource management. Quantitative Literacy is a significant component of this course.
Prerequisites: BY 124 [Min Grade: C]

BY 469. Molecular Ecology and Phylogenetics. 3 Hours.
Course will survey processes and patterns of molecular evolution and methods of phylogenetic analysis using DNA sequences, amino acid sequences, and molecular markers.
Prerequisites: BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 470. Ecology. 3 Hours.
Ecosystems and population biology. Lecture.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D] or BY 260 [Min Grade: D] or BY 271 [Min Grade: D]

BY 471. Ecology Laboratory. 1 Hour.
Laboratory in ecosystems and population biology. May be taken concurrently with BY 470.
Prerequisites: BY 470 [Min Grade: D](Can be taken Concurrently)

BY 474. Chemical Ecology. 3 Hours.
Study of chemical interactions between organisms or between organisms and their environment. Topics include chemical signaling between organisms, sensing of the chemical environment, and chemical defenses against predators, pathogens, biofoulers, or competitors. Students will be introduced to these topics in wide variety of terrestrial and aquatic habitats, with a special emphasis on marine organisms.
Prerequisites: BY 124 [Min Grade: C] and CH 235 [Min Grade: C]

BY 475. Comparative Developmental Biology. 3 Hours.
Mechanisms of development with emphasis on comparative biology.
Prerequisites: BY 210 [Min Grade: D]

BY 480. Emergency Medicine Internship. 3 Hours.
This semester-long internship is designed to provide undergraduate students with an authentic hands-on medical research experience. The course will allow students the opportunity to assist faculty members and residents of the UAB Department of Emergency Medicine in their clinical research studies. Specifically, students will be involved in patient recruitment for the study, determine patient eligibility, reading information about the studies to patients, and collecting data regarding patient history. Students will also have the methodology associated with clinical research. Junior or senior standing, minimum GPA of 3.5, completed application and acceptance into the internship program required.

BY 490. Bio Capstone: Human Physiology. 4 Hours.
Physiological processes occurring at cell, tissue, organ, and system levels in mammals with emphasis on humans. Students that enroll in this capstone experience will be expected to do additional work to fulfill their biology capstone requirement. Lecture and Laboratory. Foundation in anatomy recommended (Human Anatomy or Vertebrate Zoology).
Prerequisites: BY 210 [Min Grade: D] and CH 237 [Min Grade: D] and (CH 238 [Min Grade: D] or CH 239 [Min Grade: D])

BY 491. Biology Capstone - Evolution. 4 Hours.
The course introduces the history of evolutionary thought and modern evolutionary theory. Discussions cover (but are not limited to) the history of life, mechanisms of evolutionary change, sexual selection, adaptation, speciation, and molecular evolution. Students will be introduced to historical and contemporary studies of evolution on a wide variety of topics and organisms. Students that enroll in this class as their capstone experience are expected to do writing and ethics assignments to fulfill their capstone requirement.

BY 492. Biology Capstone - Undergraduate Research. 4 Hours.
Research project under supervision of faculty sponsor. Student must enroll for 4 credit hours and must have senior standing. Students who enroll in this course as their capstone experience will be required to do additional work to fulfill their biology capstone requirement.

BY 493. Biology Capstone - Honors Research. 4 Hours.
Research project under supervision of faculty sponsor. You must enroll in 4 credit hours and you must have senior standing. Students that identify this course as their capstone experience will be required to do additional work to fulfill their biology capstone requirement.

BY 495. Special Topics in Biology. 1-4 Hour.
This course will consider topics from the various disciplines in the biological sciences and the topic will differ each term. Course requirements may include lecture, laboratory, readings, discussion, reporting, and internships or fieldwork, which may be conducted on- or off-campus. May be taken more than once for credit.
Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] and BY 210 [Min Grade: C]

BY 496. Fundamentals of Clinical Research. 3 Hours.
Issues relevant to the conduct of clinical research: ethics, hypothesis testing, study design, and data collection and management. Lecture and clinical interaction with patients. Prerequisites: Junior or Senior level biology majors; 15 hours of biology credit with a 3.5 GPA in biology courses, and permission of instructor.

BY 498. Honors Research. 1-6 Hour.
Research project for students admitted to Honors Research Program. Two or three terms required during which minimum of 6 semester hours must be earned. Grade assigned at completion of program. 18 hours of biology with minimum GPA of 3.5 in biology classes and admission to Honors Research Program required.

BY 499. Biology Seminar. 1 Hour.
Student presentations and discussions. Subject matter varies by term. See current class schedule for topic. Senior standing and permission of instructor required.

The University of Alabama at Birmingham

CAS-College of Arts & Sciences

Courses

CAS 101. Success in Biology and Natural Sciences. 2 Hours.
The objective of this course is to introduce incoming freshmen to an education in the biology in context of the university. It is meant to help prepare students for a successful collegiate career in the study of biology and natural sciences.
CAS 102. Success in Chemistry and Natural Sciences. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in the chemistry in context of the university. It is meant to
help prepare students for a successful collegiate career in the study of
chemistry and natural sciences.

CAS 103. Success in the Sciences. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in the sciences in context of the university. It is meant to
help prepare students for a successful collegiate career in the study of
science.

CAS 104. Success in Soc/ Behavioral Sci. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in the social and behavioral sciences in context of the
university. It is meant to help prepare students for a successful collegiate
career in the study of social and behavioral sciences.

CAS 105. Success in Psychology and Social Sciences. 2 Hours.
The objective of this course is to introduce freshmen to an education in
psychology and the social sciences in context of the university. It is meant
to help prepare students for a successful collegiate career in the study of
psychology and social sciences.

CAS 106. Success in the Humanities. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in the humanities in context of the university. It is meant to help
prepare students for a successful collegiate career in the study of the
humanities.

CAS 107. Success in Music. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in music in context of the university. It is meant to help prepare
students for a successful collegiate career in the study of music.

CAS 108. Success in Communication. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in communication in context of the university. It is meant to help
prepare students for a successful collegiate career in the study of
communication.

CAS 109. Success in World Cultures and Foreign Languages. 2
Hours.
The objective of this course is to introduce incoming freshmen to an
education in foreign languages and world cultures in context of the
university. It is meant to help prepare students for a successful collegiate
career in the study of world cultures and foreign languages.

CAS 110. Success in Art. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in art in context of the university. It is meant to help prepare
students for a successful collegiate career in the study of art.

CAS 111. Success in Theatre. 2 Hours.
The objective of this course is to introduce incoming freshmen to an
education in theatre in context of the university. It is meant to help
prepare students for a successful collegiate career in the study of theatre.

CAS 112. Success in College. 1 Hour.
The objective of this course is to introduce incoming freshmen to a
successful path in college. It is meant to help prepare students for a
successful collegiate career in any field of study.

CAS 399. Perceptions:Poverty in Amer/SL. 3 Hours.
This service-learning course engages students in critical analysis
of perceptions and policies about poverty in the United States while
providing essential tax preparation and services to members of our
local community. Academic coursework will focus on perceptions and
misperceptions of those in poverty, race and poverty, socioeconomic
issues faced by low-income families, federal and state policies toward
working families, predatory lending practices that erode wealth, and
strategies to address poverty in the United States.

CDS-Clinical & Diagnostic Sciences

Courses

CDS 300. Microbiology for the Health Professions. 3 Hours.
A course in which the basic, and some advanced, concepts of
microbiology are presented as they relate to health sciences and
medicine. The course consists of nine units, each of which contains
multiple lessons. The units cover the scope of microbiology, a survey
of microorganisms, the study of microorganisms, microbial physiology,
the control of microbial growth, microbial genetics, immunity, microbial
pathogenesis, and microbial processes.

CDS 301. Microbiology Laboratory for Health Professions. 1 Hour.
Students will learn to practice laboratory safety, correctly operate a
compound light microscope, prepare and interpret the results of various
stains, cultivate, isolate and identify pathogenic microorganisms, and
perform and interpret simple serologic assays.

CDS 400. Fundamentals of Phlebotomy and Body Fluid Collection. 1
Hour.
An in depth course in phlebotomy covering aspects of safety procedures,
hygiene, capillary puncture, venipuncture, arterial access and
maintenance, intravenous access and maintenance, drug administration
via IV, intramuscular and subcutaneous methods and non-blood
collections of bodily fluids.

CDS 405. Survival Spanish for Health Professionals. 1 Hour.
Health care professionals will be introduced to basic vocabulary, useful
questions and expressions in Spanish needed to communicate in
practical health care situations. Students will participate in speaking
exercises, dialogue, and role-play activities (field-specific scenarios).

CDS 410. Introduction to Electrocardiography. 1 Hour.
Study of the essentials of 12-lead EKG interpretation including discussion
of various lead systems. Identification of typical cardiac rhythms and
discussion of abnormal anatomy and physiology consistent common
cardiac arrhythmias.

Prerequisites: BY 123 [Min Grade: C] and BY 124 [Min Grade: C] or
BY 115 [Min Grade: C] and BY 116 [Min Grade: C] or (BMD 310 [Min
Grade: C] and BMD 315 [Min Grade: C])

CDS 420. Competencies in Genetics for Health Professions. 2 Hours.
Overview of core competencies in genetics; develops knowledge, skills,
and attitudes needed to provide effective and comprehensive health
services to individuals and families.
CDS 425. First Aid and Healthcare Provider CPR and AED Course. 1 Hour.
The goal of this course is to provide the student with the knowledge and
skills needed to perform basic first aid and CPR procedures for adult,
child and infant victims according to the American Heart Association
(AHA) Standards.

CDS 430. Advanced Cardiac Life Support. 1 Hour.
Provides students with the knowledge and skills needed to perform
Advanced Cardiac Life Support (ACLS) according to the American Heart
Association (AHA) standards.

CDS 440. Physics in Bio-Medical Sciences. 3 Hours.
Qualitative and quantitative applied physical concepts pertaining to
medical applications. Selected physical concepts used in biology, human
anatomy, physiology, and medical diagnosis and treatment. Topics
include mechanics, fluids, waves, heat, sound, optics, electricity &
magnetism, radiation, X-rays, MRI, and Nuclear Medicine.
Prerequisites: PH 201 [Min Grade: C] and PH 202 [Min Grade: C]

CDS 444. Social and Behavioral Science for the Health Professions. 3 Hours.
Health and behavior are influenced by multiple psychological, behavioral,
social, and cultural factors. An understanding of these factors is essential
to addressing health problems and eliminating health disparities and
inequalities. This course will provide an overview of biopsychosocial
factors that influence health status and outcomes. Community
engagement and service learning is an essential component of this
course.

CDS 450. Introduction to Medical History Taking and Physical
Examination. 3 Hours.
Introduction to the proper way to elicit a comprehensive medical history,
perform a physical examination, and report the findings in a systematic
and concise format.

CE-Civil Engineering Courses

Courses

CE 011. UG Coop/Internship in CE. 0 Hours.
Engineering workplace experience in preparation for the student's
intended career.

CE 200. Engineering Geology. 2 Hours.
The solid earth, the nature of the earth's crust and surficial processes.

CE 210. Statics. 3 Hours.
Newton's law of motion. Vector algebra. Concepts of position and
moment vector. Equivalent force systems. Free body concept. Equations
of equilibrium. Analysis of pin-connected trusses. Friction. Properties of
surfaces. Quantitative Literacy is a significant component of this course.
Prerequisites: EGR 200 [Min Grade: C] (Can be taken Concurrently)
or HC 111 [Min Grade: C] or EGR 111 [Min Grade: C] (Can be taken
Concurrently) and (MA 126 [Min Grade: C] or MA 126 [Min Grade: P])
and (PH 221 [Min Grade: C] or PH 221 [Min Grade: P])

CE 220. Mechanics of Solids. 3 Hours.
Variation of stress at a point. Equilibrium requirements and body force
concepts. Variation of strain at a point. Strain gages and rosettes. Stress-
strain relationships. Analysis of axially loaded bars, circular shafts in
torsion, bending of beams, buckling of columns, and stability of rotating
shafts. Analysis of simple, statically determinate and indeterminate
structures.
Prerequisites: CE 210 [Min Grade: C]
CE 236. Transportation Engineering. 3 Hours.
Function, influence, characteristics and operation of transportation systems and facilities, focusing primarily on highway systems. Geometric design, operations, and transportation planning are covered.
Prerequisites: MA 125 [Min Grade: C] and PH 221 [Min Grade: C]

CE 360. Structural Analysis. 3 Hours.
Reactions, shears, moments, and axial forces in determinate and indeterminate structures. Influence lines; moment area and energy methods of computing deflections; methods of truss and frame analysis. Computer applications. Must have a grade of C or better to complete the course.
Prerequisites: CE 220 [Min Grade: D]

CE 395. Engineering Economics. 3 Hours.
Fundamental concepts of engineering economy. Introduction to cost and revenue estimating and cash flow analysis for engineering projects. Choosing between alternatives taking into account the time value of money, depreciation, inflation, income taxes and risk factors.
Prerequisites: MA 125 [Min Grade: C]

CE 410. FE Review for Civil Engineers. 1 Hour.
Review concepts of the engineering core and civil engineering in preparation for the Fundamentals of Engineering (FE) exam.

CE 415. Building Information Modeling (BIM). 3 Hours.
This class will be an introduction to the virtual world of design and construction. Topics covered will include uses for technology, what is BIM, and will have a focus on AutoCAD and Revit Software. An emphasis will be placed on the use of these tools and their practical applications to the real world environment. Students will be provided with the software through the Autodesk Student community and will be required to complete a Multi-Step term Project.

CE 420. Advanced Mechanics. 3 Hours.
Variation of stress at point including determination of principal and maximum shear stresses. Basic problems involving symmetrical deformation; thickwall cylinders, spheres, and rotating disks. Torsions of noncircular sections. Curved beams. Failure Theories. Unsymmetrical bending and shear center.
Prerequisites: CE 220 [Min Grade: D]

CE 426. Foundation Engineering. 3 Hours.
Application of principles of soil mechanics to: determine bearing capacity and settlement of spread footings, mats, single piles and pile groups; site investigation, evaluate data from field and tests; estimation of stresses in soil masses; lateral resistance of piles and pile group; retaining walls, sheetpiles, and coffer-dams.
Prerequisites: CE 332 [Min Grade: D]

CE 430. Water Supply/Drainage Design. 3 Hours.
Water requirements; wastewater characteristics. Hydraulics and design of sewers; distribution and reuse of water. Development of water supplies; design considerations.
Prerequisites: CE 337 [Min Grade: C]

CE 431. Energy Resources. 3 Hours.
Overview of the various energy resources: oil, natural gas, coal, nuclear, hydro, solar, geothermal, biomass, wind, and ocean energy resources, in terms of supply, distribution, recovery and conversion, environmental impacts, economies, policy, and technology. Concepts and opportunities for energy conservation; including electric power generation, changing role of electric utilities, transportation applications, and energy use in developing countries. Field trips.
Prerequisites: CE 236 [Min Grade: C]

CE 433. Solid and Hazardous Wastes Management. 3 Hours.
Overview of waste characterizations, regulations, and management options. The course covers fundamentals of landfill design, recycling, incineration, emerging disposal technologies, federal and state laws, and hazardous waste treatment, and ultimate disposal of hazardous waste.
Prerequisites: CE 236 [Min Grade: C]

CE 434. Air Quality Modeling and Monitoring. 3 Hours.
Atmospheric pollutant effects, reactions and sources. Air dispersion modeling. Ambient monitoring.
Prerequisites: ME 251 [Min Grade: C]

CE 440. Civil Engineering Honors Research. 3 Hours.
Departmental honors students work closely with faculty researchers and graduate students in departmental concentration specialties to develop research skills. Enrollment is limited to undergraduate students enrolled in CCEE Department Honors Program.

CE 441. Civil Engineering Honors Seminar. 1 Hour.
Seminar focusing on student research and guest presentations of various topics of interest to civil and environmental engineering students.

CE 443. Pavement Design and Construction. 3 Hours.
Analysis of stresses and strains in pavement systems. Design and construction of flexible and rigid pavements, base courses, and subgrades. Effects of loading on pavement life.
Prerequisites: CE 345 [Min Grade: D]

CE 450. Structural Steel Design. 3 Hours.
Tension members, columns, beams, and beam columns. Simple connections. Load Resistance Factor Design (LRFD) approaches.
Prerequisites: CE 360 [Min Grade: C]

CE 453. Design of Wood Structures. 3 Hours.
Design and detailing of timber structures. Properties and specifications for dimension and glulam timber. Design of beams, columns, beam-columns, connections (nail and bolts), roof diaphragms, and shear walls. Design of timber structures to meet the requirements of the National Design Specification Standards.
Prerequisites: CE 360 [Min Grade: C]

CE 454. Design of Masonry Structures. 3 Hours.
Design and detailing of masonry structures. Nomenclature, properties, and specifications for components. Design of assemblages, simple masonry structures, unreinforced and reinforced elements, and complex masonry structures.
Prerequisites: CE 360 [Min Grade: C]

CE 455. Reinforced Concrete Design. 3 Hours.
Behavior, strength, and design of reinforced concrete structural members (beams, columns, one-way slabs, and continuous beams) subjected to moment, shear, and axial forces according to the American Concrete Institute Building Code Requirements for Structural Concrete (ACI 318). Crack control and serviceability considerations. Introduction to the design of reinforced concrete structures.
Prerequisites: CE 360 [Min Grade: C]

CE 456. Prestressed Concrete Design. 3 Hours.
Principles and concepts of design in prestressed concrete including elastic and ultimate strength analyses for flexural, shear, bond, and deflection. Principles of concordancy and linear transformation for indeterminate prestressed structures.
Prerequisites: CE 455 [Min Grade: D]

CE 460. Structural Mechanics. 3 Hours.
Elastic beam deflections, beam columns, lateral torsional buckling, column stability, plastic design, plate bending, and yield line theory.
Prerequisites: CE 360 [Min Grade: C]
CE 461. Introduction to the Finite Element Method. 3 Hours.
Prerequisites: CE 360 [Min Grade: D]

CE 462. Advanced Structural Analysis. 3 Hours.
Analysis of indeterminate structures utilizing both classical and matrix methods. Use of large-scale computer programs.
Prerequisites: CE 360 [Min Grade: C]

CE 464. Structural Dynamics. 3 Hours.
Prerequisites: CE 360 [Min Grade: C] and ME 215 [Min Grade: C]

CE 467. Wind and Seismic Loads. 3 Hours.
Methods for calculating loads on structures caused by extreme winds and earthquakes. Calculation of wind loads on various types of structures according to theory and codes. Determination of earthquake loads on structures using structural dynamics and codes.
Prerequisites: CE 360 [Min Grade: C]

CE 468. Bridge Engineering. 3 Hours.
Bridge loads, steel beam bridges, composite beam bridges, bridge bearings, reinforced and prestressed concrete slab and T-beam bridges, bridge evaluations and ratings, and upgrade methodologies; computer applications.
Prerequisites: CE 450 [Min Grade: C] and CE 455 [Min Grade: C](Can be taken Concurrently)

CE 480. Introduction to Water and Wastewater Treatment. 3 Hours.
Physical unit operations and chemical/biological unit processes for water and wastewater treatment. Design of facilities for treatment. Treatment and disposal of sludge.
Prerequisites: CE 236 [Min Grade: C]

CE 485. Engineering Hydrology. 3 Hours.
Hydrologic principles including the hydrologic cycle, precipitation data and stream-flow measurements. Applications to engineering problems: stream-flow analysis, and watershed management.
Prerequisites: CE 337 [Min Grade: C]

CE 489. Undergraduate Engineering Research. 0 Hours.
Undergraduate research experiences in civil, construction and/or environmental engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C]) or EGR 100 [Min Grade: C] and MA 125 [Min Grade: C] and PH 221 [Min Grade: C](Can be taken Concurrently)

CE 490. Special Topics in (Area). 3 Hours.
Special Topics in (Area).
Prerequisites: CE 395 [Min Grade: D]

CE 499. Capstone Design Project. 3 Hours.
Students work in teams to complete a capstone design project that incorporates the major aspects of civil engineering design including structural, geotechnical, environmental, transportation, and construction management components. The course also includes lecturing and assignments related to professionalism including engineering ethics, leadership, and management. Normally taken during last term before graduation.
Prerequisites: CE 332 [Min Grade: D] and CE 337 [Min Grade: C] and CE 345 [Min Grade: D] and (CE 450 [Min Grade: D] or CE 455 [Min Grade: D]) and CE 430 [Min Grade: D](Can be taken Concurrently) or CE 480 [Min Grade: D](Can be taken Concurrently) and CE 497 [Min Grade: D](Can be taken Concurrently)

CH-Chemistry Courses

Courses

CH 100. Chemical Problem Solving. 3 Hours.
Development of quantitative skills and introduction to basic chemical concepts to prepare students for CH 115. Successful completion of MA 098 or more advanced math, or placement in a more advanced math, is strongly recommended prior to taking this course.
Prerequisites: (A02 20 and HSCG 2.00) or (S02 480 and HSCG 2.00) or A02 21 or S02 500 or MAAD 15 or MA 098 [Min Grade: P] or MA 098 [Min Grade: C] or MA 102 [Min Grade: D](Can be taken Concurrently) or MA 105 [Min Grade: C](Can be taken Concurrently) or MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 110 [Min Grade: D](Can be taken Concurrently) or MA 125 [Min Grade: D](Can be taken Concurrently)

CH 105. Introductory Chemistry I. 3 Hours.
Fundamental facts, principles, theory, and applications of chemistry. Qualitative in nature; for non-science majors and nursing students with no previous background in chemistry. Writing assignments structured to build on scientific reasoning. Not applicable to a major or minor in chemistry. Quantitative Literacy is a significant component of this course. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: MA 098 [Min Grade: P] or MA 098 [Min Grade: C] or MA 102 [Min Grade: D](Can be taken Concurrently) or MA 105 [Min Grade: D](Can be taken Concurrently) or MA 106 [Min Grade: D](Can be taken Concurrently) or MA 107 [Min Grade: D](Can be taken Concurrently) or MA 110 [Min Grade: D](Can be taken Concurrently) or MA 125 [Min Grade: D](Can be taken Concurrently)

CH 106. Introductory Chemistry I Laboratory. 1 Hour.
Emphasizes development of lab skills and demonstration of chemical principles covered in CH 105. Writing assignments structured to build on scientific reasoning. Not applicable to a major or minor in chemistry. Quantitative Literacy is a significant component of this course. Concurrent enrollment in or prior completion of CH 105 strongly recommended.
Prerequisites: CH 105 [Min Grade: D](Can be taken Concurrently)
CH 107. Introductory Chemistry II. 3 Hours.
Fundamental organic and biochemistry. The second part of the chemistry sequence for non-science majors and nursing students. Covers concepts of organic chemistry and biochemistry. Emphasis on molecules involved in life processes. Writing assignments structured to build on scientific reasoning. Not applicable to a major or minor in chemistry. Quantitative Literacy is a significant component of this course. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: CH 105 (Min Grade: C) or CH 115 (Min Grade: C)

CH 108. Introductory Chemistry II Laboratory. 1 Hour.
Emphasizes development of lab skills and demonstration of phenomena covered in CH 107. Not applicable to a major or minor in chemistry. Writing assignments structured to build on scientific reasoning. Quantitative Literacy is a significant component of this course. Concurrent enrollment in or prior completion of CH 107 strongly recommended.

CH 114. General Chemistry I Laboratory (Honors). 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 115. Writing assignments structured to build on scientific reasoning. (Core Area III) Quantitative Literacy is a significant Component of this course. Permission of instructor or enrollment in Honors College or Chemistry Scholars program required. Concurrent enrollment or prior completion of CH 115 strongly recommended.
Prerequisites: CH 115 (Min Grade: C) (Can be taken Concurrently)

CH 115. General Chemistry I. 3 Hours.
Stoichiometry, quantum theory, atomic structure, chemical bonding, acids-bases, colligative properties and periodicity. Laboratory emphasizes quantitative analysis. Writing assignments structured to build on scientific reasoning. Concurrent enrollment in CH 115R General Chemistry I Recitation required. Quantitative Literacy is a significant component of this course. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: MA 102 (Min Grade: B) or (MA 105 (Min Grade: C) or MA 105 (Min Grade: P)) or MA 106 (Min Grade: C) (Can be taken Concurrently) or MA 107 (Min Grade: C) (Can be taken Concurrently) or MA 109 (Min Grade: C) (Can be taken Concurrently) or MA 125 (Min Grade: C) (Can be taken Concurrently) or MA 125 (Min Grade: P) or (A02 23 and HSCG 3.50) or (A02 24 and HSCG 3.00) or (A02 25 and HSCG 2.50) or A02 26 or (S02 540 and HSCG 3.50) or (S02 560 and HSG 3.00) or (S02 580 and HSCG 2.50) or S02 600 or MAC1 17 or MAAD 21

CH 115R. General Chemistry I Recitation. 0 Hours.
General Chemistry I recitation is used to build problem-solving skills in a study-group environment. Included in these sections are homework, quizzes, lecture related problems, and exams. Concurrent enrollment in CH 115 General Chemistry I required.

CH 116. General Chemistry I Laboratory. 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 115. Writing assignments structured to build on scientific reasoning. Concurrent enrollment or prior completion of CH 115 General Chemistry I recommended. Quantitative Literacy is a significant component of this course.

CH 117. General Chemistry II. 3 Hours.
Solutions, chemical kinetics, chemical thermodynamics, chemical equilibrium and special topics (organic, biochemistry, descriptive chemistry) Writing assignments structured to build on scientific reasoning. Concurrent enrollment in CH 117R General Chemistry II Recitation required. Quantitative Literacy is a significant component of this course. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: CH 115 (Min Grade: C)

CH 117R. General Chemistry II Recitation. 0 Hours.
General Chemistry II Recitation is used to build problem-solving skills in a study-group environment. Included in these sections are homework, quizzes, lecture related problems, and exams. Concurrent enrollment in CH 117 General Chemistry II required.

CH 118. General Chemistry II Laboratory. 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 117. Writing assignments structured to build on scientific reasoning. Concurrent enrollment or prior completion of CH 117 General Chemistry II recommended. Quantitative Literacy is a significant component of this course.
Prerequisites: CH 117 (Min Grade: D) (Can be taken Concurrently)

CH 119. General Chemistry II Laboratory (Honors). 1 Hour.
Emphasizes development of laboratory skills and quantitative analyses related to CH 117. Writing assignments structured to build on scientific reasoning. (Core Area III) Quantitative Literacy is a significant component of this course. Permission of instructor or enrollment in Honors College or Chemistry Scholars program required. Concurrent enrollment or prior completion of CH 117 strongly recommended.
Prerequisites: CH 117 (Min Grade: C) (Can be taken Concurrently)

CH 201. Research Methods in Chemistry. 3 Hours.
Comprehensive approach for developing research skills used in chemistry and biochemistry research laboratories. Permission of instructor required.
Prerequisites: CH 115 (Min Grade: C) (Can be taken Concurrently)

CH 234. Organic Chemistry I Laboratory (Honors). 1 Hour.
Emphasis placed on development of techniques used in organic research laboratories and scientific writing. Permission of instructor or enrollment in Honors College or Chemistry Scholars program required.
Prerequisites: CH 235 (Min Grade: C) (Can be taken Concurrently)

CH 235. Organic Chemistry I. 3 Hours.
Prerequisites: CH 117 (Min Grade: C)

CH 235R. Organic Chemistry I Recitation. 0 Hours.
Organic Chemistry I recitation is used to build problem-solving skills in study-group environments. Concurrent enrollment in CH 235 Organic I required.

CH 236. Organic Chemistry I Laboratory. 1 Hour.
Techniques of organic chemistry. Synthesis, purification, and characterization of organic compounds. Concurrent enrollment or prior completion of CH 235 strongly recommended.
Prerequisites: CH 117 (Min Grade: C) and (CH 118 (Min Grade: C) or CH 119 (Min Grade: C))
CH 237. Organic Chemistry II. 3 Hours.
Reactions of aromatic compounds and carbonyl containing functional groups: aldehydes, ketones, acids, esters and amides. Molecules of biological interest, such as proteins and carbohydrates. Concurrent enrollment in CH 237R Organic II Recitation required.
Prerequisites: CH 235 [Min Grade: C]

CH 237R. Organic Chemistry II Recitation. 0 Hours.
Organic Chemistry II recitation is used to build problem-solving skills in study-group environments. Concurrent enrollment in CH 237 Organic Chemistry II required.

CH 238. Organic Chemistry II Laboratory. 1 Hour.
Synthesis, purification, and characterization of organic compounds using instrumental analysis and identification of unknowns. Concurrent enrollment or prior completion of CH 237 strongly recommended.
Prerequisites: CH 235 [Min Grade: C] and (CH 234 [Min Grade: C] or CH 236 [Min Grade: C])

CH 239. Organic Chemistry II Laboratory (Honors). 1 Hour.
Synthesis, purification and characterization of organic compounds using instrumental analysis, molecular modeling, scientific writing and oral presentation. Permission of instructor or enrollment in Honors College or Chemistry Scholars program required.
Prerequisites: CH 237 [Min Grade: C] (Can be taken Concurrently)

CH 297. Undergraduate Research Experiences. 1 Hour.
Research experience in selected areas of chemistry under supervision of faculty mentor. 3 or more labs hours per week, GPA of 2.5 in required chemistry courses, permission of faculty mentor and chemistry academic advisor required.

CH 325. Physical Chemistry I with Calculus: Thermodynamics and Chemical Kinetics. 4 Hours.
Thermodynamics, chemical equilibria, and chemical kinetics. Lecture and laboratory. Prior completion of PH 221 and CH 355 strongly recommended. Prior completion or concurrent enrollment in MA 227 strongly recommended. Concurrent enrollment in CH 325L Physical Chemistry I Lab required.
Prerequisites: CH 117 [Min Grade: C] and MA 126 [Min Grade: C] and (PH 201 [Min Grade: C] or PH 221 [Min Grade: C])

CH 325L. Physical Chemistry I Laboratory: Thermodynamics and Chemical Kinetics. 0 Hours.
Thermodynamics and chemical kinetics laboratory required with CH 325 lecture. Concurrent enrollment in CH 325 Physical Chemistry I required.

CH 345. Inorganic Chemistry: Principles and Applications of Chemical Periodicity. 4 Hours.
Systematic coverage of descriptive chemistry. Chemical reactivity using structural and electronic parameters. Development of chemical understanding and intuition of elements and their compounds, as well as industrial and environmental applications. Lecture and laboratory. Concurrent enrollment in CH 345L Inorganic Chemistry: Principles and Applications of Chemical Periodicity Lab required.
Prerequisites: CH 237 [Min Grade: C] and (CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

CH 345L. Inorganic Chemistry Lab: Principles and Applications of Chemical Periodicity. 0 Hours.
Principles and Applications of Chemical Periodicity Laboratory required with CH 345 lecture. Concurrent enrollment in CH 345 Inorganic Chemistry: Principles and Applications of Chemical Periodicity required.

CH 355. Quantitative Analysis. 4 Hours.
Principles of analytical measurements, statistical and volumetric techniques, spectrophotometric analysis, and chromatography, with emphasis on equilibrium and applications. Lecture and laboratory. Concurrent enrollment in CH 355L Quantitative Analysis Laboratory required.
Prerequisites: CH 117 [Min Grade: C]

CH 355L. Quantitative Analysis Laboratory. 0 Hours.
Emphasizing quantitative analysis laboratory. Concurrent enrollment in CH 355 Quantitative Analysis required.

CH 391. Cooperative Education in Chemistry. 2-3 Hours.
Analysis of the concepts and models of chemistry with emphasis on computational skills for chemistry and science teachers. Appropriate for students seeking certification as chemistry or science teachers. Junior or senior standing and minimum GPA of 2.5 or above required. Requires permission of and evaluation by appropriate faculty advisor.

CH 416. Chemical Demonstrations I. 3 Hours.
Demonstration and analysis of safe, practical and effective experiments suitable for middle/high school students. At least 50 demonstrations will be performed. Not applicable to a major or minor in chemistry. Requires permission of instructor.

CH 417. Chemical Demonstrations II. 3 Hours.
Demonstration and analysis of safe, practical and effective experiments suitable for middle/high school students. At least 50 demonstrations will be performed. Not applicable to a major or minor in chemistry. Requires permission of instructor.

CH 426. Physical Chemistry II: Structure/Bonding and Molecular Spectroscopy. 3 Hours.
Quantum mechanics, chemical bonding, and molecular spectroscopy. Laboratory work correlated with lecture material. Prior completion of CH 325 and MA 227 strongly recommended. (Formerly CH 326).
Prerequisites: CH 117 [Min Grade: C] and MA 126 [Min Grade: C] and (PH 202 [Min Grade: C] or PH 222 [Min Grade: C]) and CH 427 [Min Grade: C]

CH 427. Molecular Structure and Spectroscopy Laboratory. 1 Hour.
Lecture with emphasis on structure/bonding in main group and transition metal compounds. Laboratory will utilize molecular orbital theory and molecular spectroscopy (including nuclear magnetic resonance (NMR), infrared(IR), ultra-violet-visible(UV-vis), and mass(ms) spectroscopy and X-ray crystallography.
Prerequisites: CH 117 [Min Grade: C] and MA 126 [Min Grade: C] and (PH 202 [Min Grade: C] or PH 222 [Min Grade: C]) and CH 355 [Min Grade: C]

CH 429. Special Topics in Physical Chemistry. 1-3 Hour.
Special Topics in selected areas of physical chemistry under the supervision of faculty sponsor. Requires permission of instructor.

CH 439. Special Topics in Organic Chemistry. 1-3 Hour.
Special Topics in selected areas of organic chemistry under the supervision of faculty sponsor. Requires permission of instructor.

CH 440. Transition Metal Chemistry. 3 Hours.
Relationship between bonding, structure, and properties of compounds including reactions, mechanisms, and catalysis of organometallic and bioinorganic chemistry.
Prerequisites: CH 345 [Min Grade: C] and CH 427 [Min Grade: C](Can be taken Concurrently)

CH 449. Special Topics in Inorganic Chemistry. 1-3 Hour.
Special Topics in selected areas of inorganic chemistry under the supervision of faculty sponsor. Requires permission of instructor.
**CH 450. Instrumental Analysis. 4 Hours.**
Focus on modern analytical chemistry instrumentation including chemical separations, spectroscopies (atomic absorption, infrared, UV-visible, fluorescence), mass spectroscopy, and thermal analysis. Concurrent enrollment in CH 450L Instrumental Analysis Laboratory is required and correlated with lecture material.

**Prerequisites:** CH 115 [Min Grade: C]

**CH 450L. Instrumental Analysis Laboratory. 0 Hours.** Instrumental Analysis Lab. Concurrent enrollment in CH 450 Instrumental Analysis is required.

**CH 451. Chemometrics. 3 Hours.**
Introduction to basic data analysis techniques that include testing hypotheses, establishing tendencies and correlations, experimental design, etc. The course is designed to provide a support to a research chemist in effectively solving everyday problems associated with production and interpretation of experimental data.

**CH 459. Special Topics in Analytical Chemistry. 1-3 Hour.**
Special Topics in selected areas of analytical chemistry under the supervision of faculty sponsor. Requires permission of instructor.

**CH 460. Fundamentals of Biochemistry. 3 Hours.**
Overview of biochemical principles; chemistry of aqueous solutions, biochemical building blocks including amino acids, carbohydrates, lipids, and nucleic acids; examination of metabolic pathways and enzymes that mediate catabolic and anabolic metabolism of carbohydrates, lipids, amino acids, and nucleic acids. Application of clinical correlations of metabolism to human nutrition and disease. This course is designed for Chemistry majors as well as students interested in medicine, dentistry, optometry, or pharmacy.

**Prerequisites:** CH 237 [Min Grade: C]

**CH 461. Advanced Biochemistry I. 3 Hours.**
Protein structure and function, enzymology, DNA structure, prokaryotic replication, transcription, and protein synthesis. Membrane structure and function, carbohydrate structure and function. Methods for isolating and characterizing macromolecule structure and function including chromatography, gel electrophoresis, CD, UV, and fluorescence spectroscopy, mass spectroscopy, X-ray crystallography and nuclear magnetic resonance spectroscopy.

**Prerequisites:** CH 460 [Min Grade: C]

**CH 462. Advanced Biochemistry II. 3 Hours.**
Continuation of Advanced Biochemistry I focusing on eukaryotic replication, transcription, translation, regulation of gene expression, genomics, proteomics, biological signaling.

**Prerequisites:** CH 461 [Min Grade: C]

**CH 463. Biochemistry Laboratory. 3 Hours.**
Introduction to modern bioanalytical techniques used for the expression, isolation, and characterization of proteins and other biological macromolecules. Space is limited. Students with the Chemistry Major with the Biochemistry Track have priority.

**Prerequisites:** CH 355 [Min Grade: C] and CH 460 [Min Grade: C]

**CH 464. Physical Biochemistry Laboratory. 3 Hours.**
Physical/analytical approaches (including mass spectroscopy and NMR) toward determination of macromolecular structures, ligand binding, and enzymology. Space is limited. Students with the Chemistry Major with the Biochemistry Track have priority. Concurrent or prior enrollment in CH 461 is recommended.

**Prerequisites:** CH 325 [Min Grade: C] and CH 355 [Min Grade: C] and CH 460 [Min Grade: C]

**CH 465. Structural Biochemistry. 3 Hours.**
Principles of macromolecular structure, emphasizing proteins, nucleic acids, and macromolecular assemblies. Computational methods used to teach principles and modeling software used for construction of computer models of proteins and nucleic acids. Lecture and computer Laboratory.

**Prerequisites:** CH 325 [Min Grade: C] and CH 460 [Min Grade: C]

**CH 469. Special Topics in Biochemistry. 1-3 Hour.**
Special topics in selected areas of biochemistry, biophysical chemistry, or structural biochemistry under supervision of faculty sponsor. Requires permission of instructor.

**Prerequisites:** CH 462 [Min Grade: C]

**CH 471. Medicinal Chemistry and Drug Discovery. 3 Hours.**
Emphasis in design and synthesis strategies for biologically active compounds directed toward common macromolecular drug targets. Selected examples of successful design for clinically used drug classes are presented.

**Prerequisites:** CH 237 [Min Grade: C] and CH 460 [Min Grade: C]

**CH 472. Chemistry of Natural Products. 3 Hours.**
The principal focus of this course will be the introduction of synthesis and medicinal chemistry of natural products. Drug discovery using natural products, with specific examples in the areas of antibacterial, anticancer, and analgesic drugs will be introduced. An overview of structural classes, biosynthetic pathways and application of asymmetric synthesis in the synthesis of specific examples from each class will be discussed. This course is intended for undergraduate students at the senior level. Prior completion of prerequisite courses with a grade of B or better strongly recommended.

**Prerequisites:** CH 235 [Min Grade: C] and CH 234 [Min Grade: C] or CH 236 [Min Grade: C] and CH 237 [Min Grade: C] and CH 238 [Min Grade: C] or CH 239 [Min Grade: C]

**CH 480. Polymer Chemistry I. 4 Hours.**
Basic chemical principles of polymers with the focus on synthesis, characterization, and applications of synthetic and biological macromolecules. Prior completion of CH 237, CH 325, and CH 355 (and MSE 350 for MSE students) recommended.

**Prerequisites:** CH 117 [Min Grade: C]

**CH 480L. Polymer Chemistry I Laboratory. 0 Hours.**
Polymer Chemistry I Laboratory. Concurrent enrollment in CH 480 Polymer Chemistry I required.

**CH 481. Polymer Chemistry II. 4 Hours.**
Fundamentals of chemical, physical and molecular properties of polymers in bulk and solution. Concurrent enrollment in CH 481L Polymer Chemistry II Laboratory required. Prior completion of CH 237, CH 325, and CH 355 (and MSE 350 for MSE students) recommended.

**Prerequisites:** CH 117 [Min Grade: C]

**CH 481L. Polymer Chemistry II Laboratory. 0 Hours.**
Polymer Chemistry II Laboratory. Concurrent enrollment in CH 481 Polymer Chemistry II required.

**CH 483. Chemistry of Polymers and Polymeric Materials I. 3 Hours.**
Basic chemical principles of polymers with the focus on synthesis, characterization, and applications of synthetic and biological macromolecules. No laboratory is required. This course sequence is for undergraduate engineering majors (B.S. in Bioengineering and Materials Sciences). The laboratory accompanying Polymer Chemistry I is NOT required for these students. Prior completion of CH 237, CH 325, and CH 355 (and MSE 350 for MSE students) recommended.

**Prerequisites:** CH 117 [Min Grade: C]
CH 484. Chemistry of Polymers and Polymeric Materials II. 3 Hours.
Fundamentals of chemical, physical, and molecular aspects of polymers in bulk and solutions. No laboratory is required. This course sequence is for undergraduate engineering majors (B.S. in Bioengineering and Materials Sciences). The laboratory accompanying Polymer Chemistry II is NOT required for these students. Prior completion of CH 237, CH 325, and CH 355 (and MSE 350 for MSE students) recommended.
Prerequisites: CH 237 [Min Grade: C]

CH 489. Special Topics in Polymer Chemistry. 1-3 Hour.
Special topics in selected areas of polymer chemistry under supervision of faculty sponsor. Requires permission of instructor.

CH 492. Research Methods. 3 Hours.
This course is required in the UABTEACH program and is specially designed to meet the needs of future teachers. Students meet two hours per week for non-traditional, interactive lectures and two hours per week for lab. The course is cross-listed (Physics, Chemistry, and Biology). It provides students with the tools that scientists use to solve scientific problems; gives students the opportunity to use these tools in a laboratory setting; makes students aware of how scientists communicate with each other through peer-reviewed scientific literature; and enables students to understand how scientists develop new knowledge and insights. The course requires a substantial amount of writing.

CH 493. Chemistry in Culture & Ethics. 3 Hours.
Designed to explore the impact of chemical innovations on society; challenges students to consider ethical use of chemical innovations and broader impacts of chemistry in society. Writing assignments are structured to build on scientific reasoning. Capstone course for Chemistry majors.
Prerequisites: CH 237 [Min Grade: C]

CH 495. Ethics in Chemical Research. 1 Hour.
Designed to explore the impact of chemical innovations on society; challenges students to consider ethical use of chemical innovations and broader impacts of chemistry in society. Writing assignments are structured to build on scientific reasoning. Capstone course for Chemistry majors.
Prerequisites: CH 237 [Min Grade: C] and CH 497 [Min Grade: C](Can be taken Concurrently)

CH 497. Undergraduate Research. 3 Hours.
Research project conducted under the supervision of a faculty mentor. Two semesters are highly recommended for minimum accumulation of 6 semester hours. A progress report is required each semester and a comprehensive written report in ACS format is required at the completion of the project. Permission of faculty mentor and chemistry academic advisor required; GPA 2.5 or greater overall; GPA 3.0 or greater in required chemistry courses.
Prerequisites: CH 237 [Min Grade: C] and (CH 238 [Min Grade: C] or CH 239 [Min Grade: C])

CH 498. Chemistry Teaching Methods. 3 Hours.
This course provides chemistry majors who will be future chemistry teachers with insights into the fundamental principles of chemistry in a way that can be transported to the classroom. The course will cover all aspects of teaching, measurements of effectiveness, and outcomes. Permission of instructor required.
Prerequisites: CH 237 [Min Grade: C]

CH 499. Honors Research and Thesis. 3 Hours.
Research project conducted under the supervision of faculty mentor. Prior completion of 6 hours of CH 497 and admission to the Chemistry Honors Program. Requires research proposal on file with and approved by chemistry honors director. The course concludes with a written honors thesis and oral presentation and defense. Chemistry GPA 3.25 or greater; overall GPA 3.0 or greater and permission of instructor required.
Prerequisites: CH 497 [Min Grade: C]

CHHS-Community Health and Human Services Courses

Courses

CHHS 140. First Aid. 3 Hours.
Knowledge and skills needed to perform basic first aid and CPR procedures.

CHHS 141. Personal Health. 3 Hours.
Knowledge and skills that support a healthy lifestyle. Stress management, cardiovascular health, nutrition, and fitness.

CHHS 223. Introduction to Disease Prevention in Health Education/Promotion. 3 Hours.
Disease etiology, incidence, prevalence, prevention, and control. Impact of various diseases on society.
Prerequisites: CHHS 141 [Min Grade: C] or HE 141 [Min Grade: C] and (KIN 222 [Min Grade: C] or PE 222 [Min Grade: C] or HPE 200 [Min Grade: C])

CHHS 342. Introduction to Health Education/Promotion. 3 Hours.
Foundations of health education and health promotion. Key concepts, definitions, models, theories, and skills.
Prerequisites: HE 141 [Min Grade: C] or CHHS 141 [Min Grade: C]

CHHS 343. Behavioral Theory in Health Education/Promotion. 3 Hours.
Application of health education theories and methods to assist individuals and groups with planned behavior change. Basic steps of program planning and implementation. Multiple assignments to reinforce ethics and civic responsibility in the profession. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: (HE 141 [Min Grade: C] or CHHS 141 [Min Grade: C]) and (HE 223 [Min Grade: C] or CHHS 223 [Min Grade: C]) and (HE 342 [Min Grade: C] or CHHS 342 [Min Grade: C])

CHHS 350. Introduction to Human Services. 4 Hours.
This course is an introductory course in studying the field of human services. Content will include learning about what “human services” is, the helping process, and the roles and duties of those calling themselves “human service” providers. Coverage will also include learning about a broad range of services, jobs, functions, and roles human service professionals provide in everyday life. Basic principles, concepts, and theory in the helping field will be covered.

CHHS 402. Mental Health and Stress Management. 3 Hours.
Stress process and its relationship to individual wellness and total health. Physical and psychological effects of stressors and individual appraisals using theoretical models and practical examples. How to identify and manage stress. Effective skills to reduce deleterious effects of stressful events.
CHHS 404. Global Trends in Health Education/Promotion. 3 Hours.
The goal of this course is to introduce students to the many and varied health education priorities around the world. New and ongoing health issues will be discussed. The contributions of health educators, both actual and potential, will be explored. Additionally, the course will look at how health educators can effectively work with other health professionals to reduce the risk of health threats on the personal, community, national and international levels.

CHHS 408. Drug Abuse Prevention and Education. 3 Hours.
Concept, manifestation, and causes of addiction. Major drug classifications and their effects. Potential of drug education as preventative mechanism.

CHHS 415. Case Management in Human Services. 3 Hours.
This course is an introductory course in studying the field of human services. Content will include learning about what “human services” is, the helping process, and the roles and duties of those calling themselves “human service” providers. Coverage will also include learning about a broad range of services, jobs, functions, and roles human service professionals provide in everyday life. Basic principles, concepts, and theory in the helping field will be covered.
Prerequisites: HE 350 [Min Grade: C] or CHHS 350 [Min Grade: C]

CHHS 420. Helping Skills in Human Services. 3 Hours.
This course promotes skills appropriate for selected health problems, problem solving, and referrals. It also promotes skills to enhance communication with clients, peers, and community members at large.

CHHS 421. Health Communication. 3 Hours.
Skills appropriate for selected health problems, problem solving, and referrals. Skills to enhance communication with clients, peers, and community members at large. Health-related theories, communication theories, and marketing strategies.
Prerequisites: CHHS 141 [Min Grade: C] or HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or CHHS 222 or HE 222 [Min Grade: C] and (CHHS 342 [Min Grade: C] or HE 342 [Min Grade: C]) and (CHHS 343 [Min Grade: C] or HE 343 [Min Grade: C])

CHHS 423. Human Sexuality. 3 Hours.
Biological, sociological, psychological, and ethical aspects of human sexuality. Biological overview, behavioral variations, research in sexuality, social issues, sexual decision making, sexuality of special populations, and sexual complications.

CHHS 425. Community Resources/Identification/Mobilization in Human Services. 3 Hours.
This course provides an overview of community change, and it discusses theoretical issues and principles that promote change. Further, it introduces models of community change, provision of services, change agents, identification of resources, and community mobilization.

CHHS 426. Student Health & Wellness Center Peer Education. 3 Hours.
The intent of this course is to provide students will the skills to facilitate group presentations on health related content to their peers. Students will complete the Certified Peer Education Training a comprehensive, interactive, and skills-based training. Students will learn about the programs and services offered at the UAB Student Health and Wellness Center and be able to articulate this to new student users. Students will learn basic alcohol and other drug information in preparation for presentation to their peers.

CHHS 427. SHAPE Peer Education. 3 Hours.
This course is designed to provide students with the knowledge and skills needed to effectively communicate accurate information related to sexual health and decision-making. The concept of total health and the effects of lifestyle and decision-making on the quality of life will be emphasized. Students will learn decision-making and other skills that will enable them to make healthy choices and engage in healthy activities to improve and maintain an ideal level of quality of life. By the end of this course the student will be able to facilitate workshops on Sexual Decision Making, HIV Awareness, and Healthy Relationships.

CHHS 431. Planning and Implementing Health Education/Promotion Programs. 3 Hours.
Content and process planning, implementing, and evaluating programs in health education and health promotion. Sociological, psychological, and epidemiological foundations of health promotion programs. Development of practical skills for school, occupational, clinical, and community settings. A comprehensive program planning assessment will reinforce quantitative literacy in the profession. Quantitative Literacy is a significant component of this course.
Prerequisites: [CHHS 141 [Min Grade: C] or HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or CHHS 222 [Min Grade: C] or HE 222 [Min Grade: C]] and (CHHS 342 [Min Grade: C] or HE 342 [Min Grade: C]) and (CHHS 343 [Min Grade: C] or HE 343 [Min Grade: C])

CHHS 432. Administration of Health Education/Promotion Programs. 3 Hours.
Administrative theory and practice related to health and fitness programs in various settings. Management issues, professional issues, and personal professionalism. Writing is a significant component of this course.
Prerequisites: CHHS 141 [Min Grade: C] or HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or CHHS 222 [Min Grade: C] or HE 222 [Min Grade: C] and (CHHS 342 [Min Grade: C] or HE 342 [Min Grade: C]) and (CHHS 343 [Min Grade: C] or HE 343 [Min Grade: C])

CHHS 452. Evaluation and Grantsmanship. 3 Hours.
Evaluation of health education programs and curricula. Current thought and practice related to evaluation and the grant writing process.
Prerequisites: (CHHS 342 [Min Grade: C] or HE 342 [Min Grade: C]) and (CHHS 343 [Min Grade: C] or HE 343 [Min Grade: C])

CHHS 455. Fund Raising in Human Services. 3 Hours.
This course introduces students to the area of fund raising, development, special events, annual fund, major gifts, capital campaigns, and basic finance in the nonprofit sector. It is also appropriate for students working in other areas of Human Services as well as other majors who plan to work with nonprofits or governmental agencies. The course will also give students the foundation and tools needed to implement these plans into action. By the end of the course students will have developed at least one major fundraising plan focusing on one area.

CHHS 460. Leadership in Non-Profit Administration. 3 Hours.
This course provides the opportunity for study of administrative practices as related to health/fitness programs in various settings. Emphasis is on program administration and management. Consideration is also given to health/fitness professional issues.
CHHS 489. Intervention Strategies for Health Education/Promotion. 3 Hours.
Methods and materials; media used in professional health education practice. Nature of effective helping relationships. Selection, development, and critique resources for health instruction; Development of lesson plans. Barriers and ethical issues related to planned health behavior change.
Prerequisites: (CHHS 342 [Min Grade: C] or HE 342 [Min Grade: C]) and (CHHS 343 [Min Grade: C] or HE 343 [Min Grade: C])

CHHS 490. Special Projects in Health Education. 1-6 Hour.
Exploration of health-related topic via professional literature or research project.

CHHS 491. Problems in Health Education. 1-6 Hour.
Controversial topics in health education or topics identified as state or national priority.

CHHS 498. Lifespan Dimensions in Women’s Health and Nutrition. 3 Hours.
Highlights will include health issues specific to women, chronic diseases, body image and eating disorders, health promotion and disease prevention, pregnancy, childbirth and lactation, weight loss/maintenance, menopause and ageing, fitness management and stress management.

CHHS 499. Community Health & Human Services Internship. 3-9 Hours.
Supervised work experience in a pre-approved community agency/organization.
Prerequisites: CHHS 431 [Min Grade: C]

CHI-Chinese Courses

Courses

CHI 101. Introductory Chinese I. 3 Hours.
This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Chinese is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

CHI 102. Introductory Chinese II. 3 Hours.
This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Chinese is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

CHI 190. Study Abroad: Chinese. 1-6 Hour.
Approved novice level study abroad program in a Chinese-speaking country. Course of study will vary according to array of approved offerings student interest. Permission of department chair required.

CHI 201. Intermediate Chinese I. 3 Hours.
This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Chinese is spoken. (CORE AREA II).

CHI 202. Intermediate Chinese II. 3 Hours.
Continuation of Chinese 201. Conducted in Chinese.

CHI 203. Intermediate Chinese Language & Culture. 3 Hours.
This course aims to improve student linguistic and cultural fluency necessary for functioning in the Chinese-speaking world. Class activities will consist of communicative exercises such as role-playing. While emphasis will be placed on oral skills, attention will also be given to the written Chinese that one encounters in daily life, particularly in signage and forms. Topics may include: Conversational Chinese in such settings as a restaurant, business, store, public transportation, airport, post office, hospital, home-stay, hotel, and local attractions.

CHI 204. Intermediate Chinese Language and Culture II. 3 Hours.
This course focuses on developing students reading and writing skills to increase Chinese literacy. It will also expand students vocabulary, grammatical understanding, listening and speaking.
Prerequisites: CHI 201 [Min Grade: C]

CHI 206. Chinese for the Professions. 3 Hours.
Intensive conversation and acquisition of vocabulary for the professionals while focusing on culture(s) of the Chinese-speaking world. Course Objectives: To further develop communicative competence within the cultural context of the Chinese-speaking world; To foster critical thinking skills, such as, problem-identification and solving, decision-making, anticipation and planning, client understanding, and negotiation techniques; To expand students' functional vocabulary, in particular, the languages of the Chinese-speaking professional world; To promote a better understanding of Chinese business culture; To develop professional basic writing skills.

CHI 290. Chinese for Study Abroad. 1-6 Hour.
This study-abroad Chinese course aims at improving students' oral fluency. It will help students develop intermediary conversational skills as they study in total immersion. The emphasis will be on efficient target language production at the intermediate level, as well as an oral and comprehension skills, communicative strategies, and the acquisition of vocabulary relating to a variety of domains. The course content will also include discussion and analysis of current cultural topics. CHI 290 will be conducted entirely in Chinese.

CHI 299. Directed Readings in Chinese. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Chinese students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Chinese language and culture. Intermediate proficiency in reading, writing, listening and speaking Chinese is the targeted outcome.

CHI 390. Study Abroad: Chinese. 1-6 Hour.
Advanced program in a Chinese-speaking country. Course of study will vary according to array of approved offering and student interest. Permission of the Department Chair and Director of Education Abroad required.

CHI 399. Directed Readings: Chinese. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Chinese language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of the Chinese language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Chinese is the targeted outcome. Permission of the Department Chair required.
CHI 490. Study Away: Chinese. 1-6 Hour.
Advanced program in a Chinese-speaking country. Course of study will vary according to array of approved offering and student interest. Permission of the Department Chair and Director of Education Abroad required.

CMST-Communication Studies

Courses

CMST 100. Media & Society. 3 Hours.
Examines the impact of mediated messages on society. What theories help to shape perception and understanding of the interplay between media, society, and human behavior.

CMST 101. Public Speaking. 3 Hours.
Effective public speaking. Analysis, research, organization, delivery, to enhance speaking performance. This course meets the Core Curriculum requirements for Area II: Humanities.

CMST 103. History of Mass Media. 3 Hours.
The history of newspapers, books, magazines, radio, television, cinema, recording industry, and the internet, focusing on current events, civic responsibilities and the role, value of diversity when appropriate. Ethics and Civic Responsibility are significant components of this course.

CMST 105. Introduction to Human Communication. 3 Hours.
Communication and persuasion as ideas in Western thought, ranging from Greek to contemporary period. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

CMST 110. Introduction to Interpersonal Communication and Relationships. 3 Hours.
This class introduces students to interpersonal communication research and theory; focusing on emotion management, passion, jealousy, romantic attraction, betrayal, conflict, deception, and the successful maintenance of romantic, family, and friendship relationships.

CMST 210. Newswriting and Reporting I. 3 Hours.
Recognizing news, gathering information, and writing news. Though the emphasis is on newspaper journalism, this is a foundational news writing course for all mass communication majors and minors.
Prerequisites: EH 102 [Min Grade: B]

CMST 255. Introduction to Political Campaign Communication. 3 Hours.
A discussion of current theories and practices related to political campaign communication. This will include relevant media theories, campaign strategies, campaign financing, speech writing, and other topics as they relates to political campaigning.

CMST 283. Visual Media Production I. 3 Hours.
Intro to digital video production camera operation, framing, composition, lighting and audio with both multi-camera and single camera applications.

CMST 300. Human Communication in Everyday Life. 3 Hours.
Learning to express what we mean and to understand others is the foundation of this course. Human communication will review the following basic concepts: Components of human communication, interpersonal relationships, perceptions, and relational concerns.

CMST 301. Classical Theories of Social Influence. 3 Hours.
Classical systems of rhetoric applied to contemporary theory building in communication. Works selected from among Sophists, as well as Plato and Aristotle.

CMST 305. Applied Communication Theory. 3 Hours.
Major theoretical approaches to issues involved in human communication. Various psychological and sociological conceptualizations of communication process.

CMST 306. Investigative Reporting. 3 Hours.
Gathering and writing in-depth news; covering courts, police, schools, and county and city governments.
Prerequisites: CMST 210 [Min Grade: C] or CMST 210 [Min Grade: C] or MC 106 [Min Grade: C]

CMST 308. Newswriting and Reporting II. 3 Hours.
Practice in gathering and writing news, with experience in writing under pressure of deadlines and covering beats.
Prerequisites: CMST 210 [Min Grade: C] or CMST 210 [Min Grade: C] or MC 106 [Min Grade: C]

CMST 309. Interviewing. 3 Hours.
Theory and practice in various types of interviews, such as employment, counseling, research, and journalistic.

CMST 310. Communications and Teamwork. 3 Hours.
Theories of small group communication and practice in decision making in various group formats as part of organizational structure.

CMST 311. Organizational Communication. 3 Hours.
Theories and models of communication in organizational settings. Analysis and diagnosis of communicative patterns and consideration of methods for implementing appropriate communication models in organizations.

CMST 315. Communication Leadership and Management. 3 Hours.
Theory and research on leadership and communication management. Specific attention to contexts in which leaders and managers function.

CMST 320. Introduction to Advertising. 3 Hours.
Survey of methods, techniques, and strategy involved in creating an advertising campaign.

CMST 321. Persuasion Communication. 3 Hours.
An introduction to the study and practice of persuasive discourse using both the rhetorical and behavioral science traditions.

CMST 322. Argumentation Theory. 3 Hours.
Bases of argument and nature of issues in controversy. Evidence, logic, refutation, and argumentative formats. Recommended for pre-law as well as general students.

CMST 324. Gender, Sex Similarities and Differences in Communication. 3 Hours.
This class introduces students to gender and how it influences communication and relationships in a variety of personal and professional contexts. Theory, research, and historical perspectives are reviewed and applied to interpersonal, family, romantic, educational, health, and organizational contexts.

CMST 335. Communication and Sports. 3 Hours.
An introduction to the study of communication as it relates to sports. Topics include discussions of athlete-coach interactions, fan behaviors, and media coverage of sporting events.

CMST 339. Introduction to Public Relations. 3 Hours.
Survey of public relations in the United States. Relationships among marketing, advertising and public relations.
CMST 340. Public Relations Principles. 3 Hours.
Relationship of business, industrial, educational, health, and service institutions to audiences. Public relations as management function in areas of communication analysis, counseling, and public information activities.
Prerequisites: CMST 210 [Min Grade: C] or MC 210 [Min Grade: C] and CMST 339 [Min Grade: C] or CM 339 [Min Grade: C] or MC 339 [Min Grade: C]
CMST 343. Public Relations Methods II. 3 Hours.
Graphics, brochure and newsletter design, slide shows, broadcast PSAs, and multimedia presentations.
Prerequisites: CMST 340 [Min Grade: C] or MC 340 [Min Grade: C]
CMST 350. Publication Editing and Design. 3 Hours.
News selection, copy editing, picture editing, and headline writing.
Prerequisites: CMST 210 [Min Grade: C] or CM 210 [Min Grade: C] or MC 106 [Min Grade: C]
CMST 356. Propaganda and Public Persuasion. 3 Hours.
Theory and practice of propaganda with emphasis on mass media as tools of propagandist. Nazi, Soviet, and U.S. propaganda analyzed and critiqued in context of communication theory and ethics.
CMST 360. Feature Writing. 3 Hours.
Finding subjects, collecting information, interviewing, writing, and marketing magazine and newspaper features.
Prerequisites: CMST 210 [Min Grade: C] or CM 210 [Min Grade: C] or MC 106 [Min Grade: C]
CMST 370. Fundamentals of Broadcast Journalism. 3 Hours.
Broadcasting technology, history of radio and television, economics of broadcasting, government regulation of industry, and assessment of medium in society.
CMST 371. Copywriting for Broadcast Media. 3 Hours.
Copywriting for freelance, in-station, agency, corporate in-house, and institutional settings.
Prerequisites: CMST 103 [Min Grade: C] or MC 101 [Min Grade: C]
CMST 380. Health Communication. 3 Hours.
Bases of theory and practice of communication in health-care setting. Emphasis on communication contexts and relationships.
CMST 382. Current Issues in Health Communication. 3 Hours.
A project-based course in the current methods of communicating health information. Students will research the foundations of communication strategies in health care and plan a program of health information to be tested with an actual population. Email, telephone health, are just two areas of study for students. Students should plan for some time to be devoted to a community project.
CMST 383. Visual Media Production II. 3 Hours.
Advanced digital video production for media applications on the web, television and film.
Prerequisites: CMST 283 [Min Grade: C] or MC 283 [Min Grade: C]
CMST 400. Professional Presentations. 3 Hours.
Advanced speaking and delivery techniques in professional settings. Audience analysis, professional delivery, research, and application of theories of persuasion.
CMST 401. Instructional Communication. 3 Hours.
Communication problems in the classroom. Translation of data into lecture discussion. Empirical research on verbal and nonverbal elements of effective presentation.
CMST 402. Mass Communication Law. 3 Hours.
Legal limitations and privileges affecting publishing and broadcasting. Major court decisions. Fair comment, libel, right of privacy, fairness doctrine, and license renewal.
CMST 403. Pragmatics and Human Interaction. 3 Hours.
This class examines how people use language to create meanings within conversations; with a focus on the nature of language, speech act theory, conversation analysis, face and face maintenance, sexism in language, conversation implicature, honesty, and deception.
CMST 405. Contemporary Philosophies of Communication. 3 Hours.
Twenty-first-century systems of Western rhetoric. Concepts selected from among works of Burke, Weaver, Toulmin, Perelman, Richards, and McLuhan.
CMST 411. Organizational Communication Project. 3 Hours.
Theory and research in communication audits of organizations.
Prerequisites: CMST 311 [Min Grade: C] or CM 311 [Min Grade: C]
CMST 413. Nonverbal Communication. 3 Hours.
Elements of nonverbal behavior (physical appearance, gestures, space, voice) which affect communication in person-to-person situations.
CMST 414. Language and Thought. 3 Hours.
CMST 415. Intercultural & International Communication. 3 Hours.
Communication problems in intercultural and multicultural contexts. Interpretations and otherness. Ethnocentricity and culture. Analysis of one culture interpreting another, with emphasis on modern societies.
CMST 416. Issues in Global Communication. 3 Hours.
CMST 417. Cyborg Communication. 3 Hours.
The study of how people use online communities to mirror, extend, idealize and fantasize their everyday lives. Exploration of how online communities are formed, maintained and dissolved will be made.
CMST 425. Communication in Social and Personal Relationships. 3 Hours.
The course offers an in-depth examination of the role of communication in the initiation, development, maintenance, and termination of social, professional, and personal relationships.
CMST 440. Public Relations Methods I. 3 Hours.
Planning and executing ongoing programs and campaigns to improve organizational and institutional relations with publics. Preparing and distributing news releases, reports, letters, pamphlets, position papers, public statements, speeches, and backgronders.
Prerequisites: CMST 340 [Min Grade: C] or MC 340 [Min Grade: C]
CMST 442. Conducting Public Relations Campaigns. 3 Hours.
National and local programs that illustrate good and bad practices. Student teams research, plan, and design public relations campaign for client.
CMST 455. Seminar in Political Communication. 3 Hours.
Emerging cross-disciplinary field of political communication. Literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.
CMST 458. Media Criticism. 3 Hours.
Rhetorical systems for appraising persuasive messages and campaigns in twenty-first century.

CMST 460. Communication and Social Movements in America. 3 Hours.
Exploration of role of public communication in political, religious, social, and economic evolution of America. Movements include war and peace, revolution, slavery, feminist concerns, and industrial change.

CMST 461. Media Economics. 3 Hours.
Basic economic principles in the theories of Adam Smith, Davis Richardo and Karl Marx. Economy and communication as part of a social life. What's the value? Value in linguistics and economics. F. von Hayeck and the idea of pricing as a means of signaling. Pricing and consumption of goods in Industrial Society. Understanding media from the viewpoint of economic concepts and procedures.

CMST 480. Seminar in Health and Medical Communication. 3 Hours.
Advanced communication theory and research in health-care setting. Impact of interpersonal, organizational, and mass communication policy in field of human health and medicine.

CMST 481. Communication and Aging. 3 Hours.
Biological, neurological, and socio-psychological effects of aging on communication process. Communication with elderly in various health and medical contexts.

CMST 483. Visual Media Production III. 3 Hours.
Applied advanced digital video production.
Prerequisites: CMST 383 [Min Grade: C] or MC 383 [Min Grade: C]

CMST 491. Internship. 1-3 Hour.
Students who meet eligibility requirements may take three hours of academic credit per semester for participating in an advisor approved internship experience. All internships require a minimum of 70 hours of work per academic credit per semester.

CMST 492. Independent Study. 1-3 Hour.
The purpose of this class is to provide the student with an opportunity to conduct significant research under the direct supervision of a Communication Studies faculty member. This research is to be an extension of an existing class or classes that you have already taken. It is not to be used to replace existing classes or fulfill requirements that existing classes already fill.

CMST 493. Special Topics in Communication Studies. 3 Hours.
Topics selected by faculty.

CMST 494. Communication Research Methods. 3 Hours.
Research questions, design, methodology, data gathering, and analysis. Practice in conducting, interpreting, and communicating research findings to public. Ethical considerations of conduction research with human subjects. Ethics and Civic Responsibility are significant components of this course. Junior standing required.

CMST 495. Mass Media and Society. 3 Hours.
Mass communication research from 1940s to present. Transactional model of communication and symbolic-interactionist perspective used among other approaches to evaluate role of mass media in twenty-first century America.

COP-Co-Operative Work Program

Courses

COP 011. Cooperative Work Program Full-Time. 12 Hours.
**Engineering students should register for your department's co-op course. In order for a Co-op Work (COP) experience to be recognized by the University and posted to an academic transcript, a student must register prior to the term he or she plans to participate. If a student fails to register by the last day to add classes, as published each term, the experience will not be posted to his or her transcript retroactively. This course has requirements including: an employer offer letter, student self-assessment, employer assessment, and a final essay. Information will be provided upon enrollment. Failure to register for co-op may affect a student's status at UAB as well as eligibility for loan deferment and/or health insurance. Students who are registered should consult their academic department to determine if they are eligible to receive academic credit for their experience. For more information, please contact Career & Professional Development at 934-4324.

COP 012. Cooperative Work Program Part-Time. 6 Hours.
**Engineering students should register for your department's co-op course. In order for a Co-op Work (COP) experience to be recognized by the University and posted to an academic transcript, a student must register prior to the term he or she plans to participate. If a student fails to register by the last day to add classes, as published each term, the experience will not be posted to his or her transcript retroactively. This course has requirements including: an employer offer letter, student self-assessment, employer assessment, and a final essay. Information will be provided upon enrollment. Failure to register for co-op may affect a student's status at UAB as well as eligibility for loan deferment and/or health insurance. Students who are registered should consult their academic department to determine if they are eligible to receive academic credit for their experience. For more information, please contact Career & Professional Development at 934-4324.

COP 021. Walt Disney - Cooperative Work Program Full-Time. 12 Hours.
Cooperative work program full-time. Student must submit a letter from Disney for term employed and should consult your academic advisor for approval.

CS-Computer Science Courses

Courses

CS 103. Introduction to Computation. 4 Hours.
An introduction to computation and computational thinking, explored through programming in Python. Python is a scripting programming language that encourages exploration and quick development. This course assumes no prior programming experience and is appropriate for students in any discipline, such as linguistics, biology, business, and art. The student will leave the course with the ability to write small, clear programs that solve interesting problems, and an appreciation of the power and beauty of computation. Strings, tuples, lists, dictionaries, comprehensions, branching, iteration, recursion, abstraction through functions, higher order programming. Principles of software development are emphasized, including specification, documentation, testing, debugging, exception handling. This course has a laboratory component.

CS 103L. Introduction to Computation Lab. 0 Hours.
Laboratory to accompany CS103.

CS 199. Special Topics in Computer Science. 1-3 Hour.
Selected topics in Computer Science. This course may or may not have a laboratory component or be taught online.
CS 199L. Special Topics Lab. 0 Hours.
Project oriented hands-on approach lab. Mandatory first day of attendance.

CS 203. Object-Oriented Programming. 4 Hours.
A second course in computational thinking, through the lens of object-oriented programming. Fundamental concepts of object-oriented programming and basic data structures. Types, classes, objects, inheritance, containers, OO software design, program structure and organization, reflection, generic programming. Lists, trees, stacks, queues, heaps, search trees, hash tables, graphs, complexity analysis. This course has a laboratory component.
Prerequisites: CS 103 [Min Grade: C] or CS 201 [Min Grade: C]

CS 203L. Object-Oriented Programming Lab. 0 Hours.
Laboratory to accompany CS203.

CS 222. Mobile Application Development. 3 Hours.
Introduction to application development for mobile devices including those built on Android, iOS and Windows Phone using a popular mobile application development platform such as Cordova. Covers unique requirements and constraints of mobile applications, foundations of mobile application development, syntax and semantics of web languages such as HTML, CSS and related frameworks, client side scripting including JavaScript and associated techniques such as jQuery and Ajax, principles for the design and evaluation of mobile user interfaces, storage and sensors. Lecture and laboratory.
Prerequisites: CS 103 [Min Grade: C]

CS 222L. Mobile Application Development Laboratory. 0 Hours.
Laboratory to accompany CS 222.

CS 239. Ethical Hacking. 1 Hour.
Introduction to basic concepts in ethical hacking. Survey of legal and ethical issues of hacking, common threats, vulnerabilities and attack vectors, concept of hacking, tools for hacking, compliance reporting, and certification. This course is not available for credit to students pursuing a major in Computer and Information Sciences.
Prerequisites: CS 103 [Min Grade: C]

CS 250. Discrete Structures. 3 Hours.
Discrete mathematics for computer science, including elementary propositional and predicate logic, sets, relations, functions, counting, elementary graph theory, proof techniques including proof by induction, proof by contradiction, and proof by construction.
Prerequisites: (CS 103 [Min Grade: C] or CS 201 [Min Grade: C]) and (MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C] or MA 126 [Min Grade: C] or MA 227 [Min Grade: C])

CS 303. Algorithms and Data Structures. 4 Hours.
Techniques for design and analysis of algorithms; efficient algorithms for sorting, searching, graphs, and string matching; and design techniques such as divide-and-conquer, recursive backtracking, dynamic programming, and greedy algorithms.
Prerequisites: CS 250 [Min Grade: C] and (CS 203 [Min Grade: C] or CS 302 [Min Grade: C])

CS 303L. Algorithms and Data Structures Laboratory. 0 Hours.
Project oriented hands-on approach to accompany CS 303.

CS 306. Programming in Perl. 1 Hour.
Basic syntax and data types, data structures, functions, scoping, regular expressions and pattern matching, libraries and modules, program composition, best practices.
Prerequisites: CS 203 [Min Grade: C] and CS 250 [Min Grade: C]

CS 309. Programming in Mathematica. 1 Hour.
Syntax, semantics and concepts of programming in Mathematica: expressions, lists, patterns and rules, functional programming, procedural programming, recursion, numeric, strings, graphics and visualization, dynamic expressions, optimization, and applications.
Prerequisites: CS 203 [Min Grade: C] and CS 250 [Min Grade: C]

CS 330. Computer Organization and Assembly Language Programming. 3 Hours.
Register-level architecture of modern digital computer systems, digital logic, machine-level representation of data, assembly-level machine organization, and alternative architectures. Laboratory emphasizes machine instruction execution, addressing techniques, program segmentation and linkage, macro definition and generation, and computer solution of problems in assembly language.
Prerequisites: CS 250 [Min Grade: C] and (CS 203 [Min Grade: C] or CS 302 [Min Grade: C])

CS 330L. Computer Organization and Assembly Language Programming Lab. 0 Hours.
Laboratory to accompany CS330.

CS 333. System Programming in C. 3 Hours.
Unix architecture and internals with an emphasis on Linux, shell scripting, distributions of Linux for various computing platforms including large and desktop computers, and embedded computing devices, introduction to the C programming language, system programming in C covering signals and process control, networking, I/O, concurrency and synchronization, memory allocation, threads, debugging, library development and usage.
Prerequisites: CS 250 [Min Grade: C] and (CS 203 [Min Grade: C] or CS 302 [Min Grade: C])

CS 334. Networking. 3 Hours.
Prerequisites: CS 250 [Min Grade: C] and (CS 203 [Min Grade: C] or CS 302 [Min Grade: C])

CS 334L. Networking Lab. 0 Hours.
Project oriented hands-on approach to accompany CS 334. Mandatory first day of class.

CS 350. Automata and Formal Languages. 3 Hours.
Finite-state automata and regular expressions, context-free grammars and pushdown automata, computability.
Prerequisites: CS 250 [Min Grade: C] and MA 125 [Min Grade: C] and (CS 203 [Min Grade: C] or CS 302 [Min Grade: C])

CS 355. Probability and Statistics in Computer Science. 3 Hours.
Prerequisites: CS 250 [Min Grade: C] and (CS 203 [Min Grade: C] or CS 302 [Min Grade: C])
CS 380. Scientific Computing. 3 Hours.
Scientific computing is the foundation of many key areas of computer science (e.g., machine learning, graphics, vision, cryptography) and of companies like Google. A main object of study in this course is the matrix, including matrix computation (matrix multiplication, null space, solution of linear systems, least squares) and applications (image filtering, face detection, compression). Other topics may include wavelets, root finding, quadrature, and Fourier transform.
Prerequisites: CS 203 [Min Grade: C] and CS 250 [Min Grade: C]

CS 391. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 392. Special Topics. 1-3 Hour.
Selected Topics in Computer Science.

CS 398. Undergraduate Honors Research. 1-3 Hour.
Research project under supervision of faculty sponsor. Prerequisite: 18 semester hours in computer and information sciences with grade point average of 3.5 in computer and information sciences and permission of instructor.

CS 399. Directed Readings. 1-3 Hour.
Selected readings, research and project development under the direction of a faculty member. Permission of instructor.

CS 401. Programming Languages. 3 Hours.
Study major programming paradigms, their realization in programming languages, and their impact on application design and implementation.
Prerequisites: CS 303 [Min Grade: C] and CS 350 [Min Grade: C]

CS 401L. Programming Languages Laboratory. 0 Hours.
Laboratory to accompany CS 401.

CS 402. Compiler Design. 3 Hours.
Study the design and implementation of compilers, including front-end (lexer, parser, type checking), to mid-end (intermediate representations, control-flow analysis, dataflow analysis, and optimizations) to back-end (code generation). Students will get hands-on experience by implementing several compiler components.
Prerequisites: CS 401 [Min Grade: C]

CS 410. Database Management Systems. 3 Hours.
Relational model of databases, structured query language, normalized structure of database management systems based on relational model, and security and integrity of databases.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 415. Multimedia Databases. 3 Hours.
Multimedia information processing, multimedia database architecture, multimedia database retrieval, semantic models for multimedia databases.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 416. Big Data Programming. 3 Hours.
Introduction to Big Data, Properties of Big Data, platforms, programming models, applications, business analytics programming, big data processing with Python, R, and SAS, MapReduce programming with Hadoop.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 417. Database Security. 3 Hours.
Database fundamentals, introduction to database security, overview of security models, access control models, covert channels and inference channels, MySQL security, Oracle security, Oracle label security, developing a database security plan, SQL server security, security of statistical databases, security and privacy issues of data mining, database applications security, SQL injection, defensive programming, database intrusion prevention, audit, fault tolerance and recovery, Hippocratic databases, XML security, network security, biometrics, cloud database security, big database security.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 419. Investigating Online Crimes. 3 Hours.
Introduction to cyber-investigative techniques involving network forensics, using automated methods to evaluate digital evidence from network packet captures, emails, server logs, and security event logs related to cyber crime cases. This course is not available for credit to students pursuing the MS and PhD Degree in Computer and Information Sciences.

CS 420. Software Engineering. 3 Hours.
Design and implementation of large-scale software systems, software development life cycle, software requirements and specifications, software design and implementation, verification and validation, project management and team-oriented software development. Lecture and laboratory.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 420L. Software Engineering Laboratory. 0 Hours.
Laboratory to accompany CS 420.

CS 421. Advanced Web Application Development. 3 Hours.
Introduction to web application design and development. Includes traditional web applications utilizing server-side scripting as well as client/server platforms. Covers responsive design for both mobile and desktop users, as well as hands on server provisioning and configuration. Other topics include web security problems and practices, authentication, database access, application deployment and Web API design, such as REpresentational State Transfer (REST).
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 421L. Advanced Web Application Development Laboratory. 0 Hours.
Laboratory to accompany CS 421.

CS 423. Network Security. 3 Hours.
Conventional network security (symmetric and public-key cryptography). Message encryption and authentication. Secure communication between computers in a hostile environment, including E-mail (PGP), virtual private networks (IPSec), remote access (SSH), and E-commerce (SSL), firewalls, intrusion detection and prevention, security of IEEE 802.11 wireless networks (WEP, WPA). Mandatory weekly Linux-based lab.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 423L. Network Security Laboratory. 0 Hours.
Laboratory to accompany CS 423.

CS 425. Metrics and Performance. 3 Hours.
The theory and practice of metrics and performance. Querying theory and statistical analysis.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]
CS 426. Secure Software Development. 3 Hours.
Why and how software fails, characteristics of secure and resilient software, life cycle of secure software development, metrics and models for secure software maturity, design methodology, best practices for secure programming, secure software for mobile computing, cloud computing and embedded systems, methodology for testing and validation.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 430. Computer Architecture. 3 Hours.
Introduction to computer architecture, including memory subsystems, direct-mapped and set-associative cache and multi-level cache subsystems, direct- access devices including RAID and SCSI disk drives, processor pipelining including super-scalar and vector machines, parallel architectures including SMP, NUMA and distributed memory systems, Interrupt mechanisms, and future microprocessor design issues.
Prerequisites: CS 330 [Min Grade: C] and CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 431. Distributed Systems. 3 Hours.
Introduction to distributed systems, distributed hardware and software concepts, communication, processes, naming, synchronization, consistency and replication, fault tolerance, security, client/server computing, web technologies, enterprise technologies.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 432. Parallel Computing. 3 Hours.
Introduction to parallel computing architectures and programming paradigms. Theoretical and practical aspects of parallel programming and problem solving. Design, development, analysis, and evaluation of parallel algorithms.
Prerequisites: CS 303 [Min Grade: C] and CS 330 [Min Grade: C] and MA 125 [Min Grade: C]

CS 433. Operating Systems. 3 Hours.
Introduction to operating systems. This course looks at the internal design and operation of a modern operating system. Topics include interrupt handling, process scheduling, memory management, virtual memory, demand paging, file space allocation, file and directory management, file/user security and file access methods. Several comparisons among current operating systems are used, with attention to Windows and Unix in particular.
Prerequisites: CS 330 [Min Grade: C] and CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 433L. Operating Systems Laboratory. 0 Hours.
Laboratory to accompany CS 433.

CS 434. Virtualization. 3 Hours.
Theory and practice of virtualization. Origins, history, technical and economic motivations. Relationship to network operating systems and operating system architecture. Simulation, Emulation, Virtualization of CPUs, networks, storage, desktops, memory, devices, and combinations thereof. Different approaches to virtualization, including hardware assists and software-only techniques. Techniques, approaches, and methodologies for scale-out and scale-up computing, including security, performance and economic concerns.
Prerequisites: CS 433 [Min Grade: C] and CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 435. Network Programming. 3 Hours.
Remote procedure call and client-server mechanisms. Protocol definition and compilation; client and server stubs and application code; transport independence; multiple client and server systems. Applications, e.g., remote database query and update and image filtering and archiving; systems programming and file systems contexts.
Prerequisites: CS 334 [Min Grade: C] and CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 436. Computer Security. 3 Hours.
Study of the breadth of major computer security topics including cyber threats, malware, information assurance, authorization, applied cryptography, web security, mobile and wireless security, network security, systems/software security, database and storage security, user-centered security, and best security practices and countermeasures.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 437. Cybercrime and Forensics. 3 Hours.
A hands-on course covering all aspects of “media forensics” faced by Computer Forensics Examiners. Students will learn to analyze character encoding, file formats, and digital media, including hard drives and smartphones, as well as disk acquisition and duplication techniques and how to apply these techniques in typical criminal investigation scenarios.
Prerequisites: CS 303 [Min Grade: C] and CS 330 [Min Grade: C] and MA 125 [Min Grade: C]

CS 440. Bioinformatics I. 3 Hours.
Introduction to computational methodologies in bioinformatics.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 441. Bioinformatics II. 3 Hours.
Introduction to bioinformatics algorithms. This course is the second of a two-course sequence CS440/CS441 that is designed to provide an introduction to bioinformatics. This course will emphasize the implementation of fundamental bioinformatic algorithms. It is a programming course. Writing and oral presentations are integral parts of this course. Students are required to document their programs and provide oral presentations describing the design and implementation of global alignments, local alignments, the use of amino acid substitution matrices and BLAST.
Prerequisites: CS 440 [Min Grade: C]

CS 442. Mobile and Wireless Security. 3 Hours.
Mobile/wireless devices are ubiquitous, raising the potential for many cyber threats. This course examines security vulnerabilities inherent in many existing and emerging mobile and wireless systems, ranging from smartphones to wearables and RFID tags. In addition to exposing security vulnerabilities, defensive mechanisms to address these vulnerabilities drawn from existing deployments and research literature will be studied.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 443. Cloud Security. 3 Hours.
Definition of cloud computing, cloud computing models, privacy, authenticity and integrity of outsourced data, proof of data possession / retrievability, cloud forensics, malware analysis as a service, remote verification of capability and reliability, proof of availability, economic attacks on clouds and outsourced computing, virtual machine security, trusted computing technology and clouds, verifiable resource accounting, cloud-centric regulatory compliance issues and mechanisms, business and security risk models, secure MapReduce, applications of secure cloud computing, private information retrieval and cloud cartography.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]
CS 444. Network Forensics. 3 Hours.
This course covers concepts and methods involved in unraveling network intrusions, DDOS, and other untoward network behavior.
**Prerequisites:** CS 303 [Min Grade: C] and CS 336 [Min Grade: C] and MA 125 [Min Grade: C]

CS 445. Modern Cryptography. 3 Hours.
Theory and practices of modern cryptographic techniques, algorithms and protocols, including formal analysis. Secret key encryption algorithms, public key encryption algorithms, stream ciphers, one-way hashing algorithms, authentication and identification, digital signatures, signcryption, key establishment and management, secret sharing and data recovery, zero-knowledge proofs, public key infrastructures, efficient implementation, cryptanalytic attacks and countermeasures, security models, assumptions and proofs.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 446. Digital Currency. 3 Hours.
Fundamental principles of digital cash systems including Bitcoin, Ripple and other notable cryptocurrencies. Topics to be covered include how a cryptocurrency works, blockchain and other decentralized consensus protocols, proof of work, proof of stake, security and privacy of cryptocurrencies, cryptographic techniques for digital currency, and applications of blockchain in peer-to-peer trust establishment, smart contracts, digital asset management, financial exchanges and distributed autonomous organization.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 447. Biomedical Modeling. 3 Hours.
Modeling and analysis of biomedical datasets. Aspects of image processing and shape modeling related to biomedical datasets, morphometry, alignment, surgical planning, case studies.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 454. Malware Analysis. 3 Hours.
Hands-on course teaching static, dynamic and contextual analysis of malware. Malware analysis, and investigation is taught through interaction with both "classroom" and "wild" malware samples. Defensive and counter-measure techniques for both corporate and law enforcement environments are explored.
**Prerequisites:** CS 303 [Min Grade: C] and CS 330 [Min Grade: C] and MA 125 [Min Grade: C]

CS 456. Web Security. 3 Hours.
The web uses advanced applications that run on a large variety of browsers that may be built using programming languages such as JavaScript, AJAX, Google Web Toolkit and Apache Struts, to name a few. This course studies how core web technologies work, the common security vulnerabilities associated with them, and how to build secure web applications that are free from these vulnerabilities.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 457. Penetration Testing and Vulnerability Assessment. 3 Hours.
This course focuses on penetration testing and vulnerability analysis. It introduces methodologies, techniques and tools to analyze and identify vulnerabilities in stand-alone and networked applications. It also covers methodologies for legal and standards compliance.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 460. Artificial Intelligence. 3 Hours.
This course will provide an introduction to fundamental concepts in the field of artificial intelligence. Topics typically covered include agents, search, logic and knowledge representation, probabilistic models, machine learning, natural language processing and perception.
**Prerequisites:** CS 303 [Min Grade: C] and CS 350 [Min Grade: C]

CS 462. Natural Language Processing. 3 Hours.
This course provides a broad introduction to Natural Language Processing (Computational Linguistics). Topics typically covered in this course include part-of-speech tagging, syntactic parsing, semantic analysis, speech recognition, machine translation, sequence labeling algorithms, n-gram language models, statistical parsing, grammar formalisms and treebanks.
**Prerequisites:** (CS 303 [Min Grade: C] and CS 350 [Min Grade: C] and CS 355 [Min Grade: C]) or CS 460 [Min Grade: C]

CS 466. Games and Puzzles Seminar. 1 Hour.
Interfaces and Engines for games and puzzles such as Chess, Checkers, Othello, Rubik’s Cube, Go, Sudoku, etc.
**Prerequisites:** CS 303 [Min Grade: C]

CS 467. Machine Learning. 3 Hours.
Introduction to machine learning, the design of algorithms that can make predictions about the future based on past experience. Emphasizes practical considerations for developing efficient and accurate machine learning models, and theoretical underpinnings of different learning algorithms.
**Prerequisites:** (CS 303 [Min Grade: C] and CS 355 [Min Grade: C]) and MA 125 [Min Grade: C] or CS 460 [Min Grade: C]

CS 469. Introduction to the Internet of Things. 3 Hours.
Definition of the Internet of Things (IoT), history, IoT components, device specifications and examples, architectures, protocols, applications, security and privacy issues, programming and development environments for IoT, interoperability, interfacing IoT devices via web and mobile applications.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 470. Computer Graphics. 3 Hours.
Graphics hardware, raster images, color, shading, ray casting, triangle meshes, coordinate frames, transformation matrices, perspective and orthographic viewing, rasterization, depth buffer, animation, quaternions, smooth curves (B-spline, Bezier) and surfaces, sampling, texture mapping, graphics programming.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 473. Computer Vision. 3 Hours.
Image smoothing and filtering, feature detection, segmentation, calibration and alignment, object recognition, morphology, projective geometry, scale space.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 474. 3D Printing. 3 Hours.
3D Printing : design, materials, and aesthetics. Students will do projects which result in unique artifacts created by 3D printing. Multi-disciplinary teams are encouraged. Societal and legal implications.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 475. Advanced Visualization. 3 Hours.
Advanced computer graphics techniques aimed at scientific visualization applications.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 482. Simulation Methodology. 3 Hours.
Foundations for computer modeling and simulation, with accent on discrete systems: random number and process generation; statistical bases with probability and frequency distribution orientation; Monte Carlo experiments and general purpose modeling.
**Prerequisites:** CS 303 [Min Grade: C] and MA 125 [Min Grade: C]
CS 483. Open Source Security Systems. 3 Hours.
An introduction to the design, implementation, evaluation and maintenance of secure software systems and applications using open source technologies, with an emphasis on hands-on experience. Topics include: open source ecosystems, open source security methodologies and models, notable open source software systems and projects, quality and security assurance through open source, open source supply chain security, major open source cryptographic packages; designing, implementing and maintaining security systems using open source technologies; assessment and regulatory compliance using open source tools, and open source hardware.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 484. Robot Motion. 3 Hours.
Path planning algorithms. Configuration space, potential functions, roadmaps, cell decomposition, probabilistic motion planning, compliant motion.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 491. Special Topics. 3 Hours.
Special Topics in Computer Science.
Prerequisites: CS 303 [Min Grade: C] and MA 125 [Min Grade: C]

CS 492. Special Topics. 3 Hours.
Special Topics in Computer Science.

CS 496. Research Seminar. 1 Hour.
Participation in research seminar directed by a faculty member.

CS 497. Competitive Programming Techniques. 1 Hour.
This course will help students become more competitive in a programming competition such as the ACM programming contest by exploring numerous problem solving techniques and algorithms not covered in the traditional curriculum.
Prerequisites: CS 250 [Min Grade: C]

CS 498. Research Methods in Computer Science. 3 Hours.
This course is designed to provide future computer science teachers with the tools that computer science uses to develop new knowledge. Students will design, implement, and document independent research inquiry. Students will learn how scientists communicate through peer-reviewed publications and evaluate conflicting scientific claims. Work is closely coordinated with the work of students from other content disciplines so that students see the similarity and differences of research methods in their own field as compared with those of other science disciplines.
Prerequisites: EHS 126 [Min Grade: D]

CS 499. Senior Capstone. 3 Hours.
In this course, students will discuss topics relating to ethics in Computer Science. In a software engineering project, students will work in a team to put to practice principles and techniques that they have acquired throughout the undergraduate curriculum. A series of lectures on key topics in Computer Science given by faculty members and guest lecturers will round out the course. Students take the Major Field Test in Computer Science as a requirement for completing this course. Students should be CIS majors in their last semester of undergraduate study. Lecture and laboratory.
Prerequisites: CMST 101 [Min Grade: C] and PHL 115 [Min Grade: C]

CS 499L. Senior Capstone Laboratory. 0 Hours.
Laboratory to accompany CS 499.

Courses

DB 320. Distribution Management. 3 Hours.
Introduction to basic problems, concepts and management practices of distribution firms and manufacturing relationships. History of types of distributor organizations, functions and role of industrial distribution in the economy.
Prerequisites: MK 303 [Min Grade: C](Can be taken Concurrently)

DB 430. Distribution Operations. 3 Hours.
Concepts of value added, profitability, inventory management, scheduling, decision support systems, facilities, and warehouse operations integrated with financial control of distributor operations. Case studies and industrial speakers.
Prerequisites: DB 320 [Min Grade: C] and AC 200 [Min Grade: C] and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and OM 214 [Min Grade: C] and LS 246 [Min Grade: C] and OM 215 [Min Grade: C]

DB 435. Distribution Policies and Quality Issues. 3 Hours.
Cases incorporating current approaches and procedures for attaining optimum manufacturer/distributor/customer relationships. Distributor go-to-market channel strategies and management, B2B ecommerce strategy and applications, and strategic account management processes and systems. Market demand analysis, profitability, sales force strategies, multi-channel selling models, and other operational strategies and technologies used by industrial distributors.
Prerequisites: DB 320 [Min Grade: C] and AC 200 [Min Grade: C] and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and OM 214 [Min Grade: C] and OM 215 [Min Grade: C] and (BUS 101 [Min Grade: C] or BUS 102 [Min Grade: C])

DB 495. Distribution Directed Studies Practicum. 3 Hours.
Issues in managing distributors, both as suppliers for and customers of manufacturers and other businesses. Students work with host distributor/manufacturer on current and future distribution problem areas. Students develop an in-depth research analysis of the host distributor/manufacturer.

DCS-Digital Community Stud Courses

Courses

DCS 101. Media and Society. 3 Hours.
This course serves as an introduction to the theory and practice of media production. Topics include the practice of looking, a cross-cultural look at visual representation, and the impact of media on society.

DCS 150. Introduction to Film and History. 3 Hours.
This course will examine fiction and non-fiction films as socially significant documents. Students will receive an introduction to the techniques of film analysis in the class.

DCS 201. History of Documentary Film. 3 Hours.
This course will provide a history of the documentary tradition by studying the major stylistic movements, works, and filmmakers of non-fiction film and photography in the 20th century.

DCS 208. Women In Film. 3 Hours.
This course will provide a history of women in film, focusing on both women working in the film industry and the representation of women on screen. The course will focus on American film history, 1930’s Hollywood to the present.
DCS 250. Community and Service. 3-6 Hours.
This service-learning course provides students the opportunity to explore social and community issues by volunteering with a local agency, non-profit or community group. Students will use multimedia to highlight their community partner, document their experience and share their interests. Methods such as participant observation and ethnographic field approaches will provide the framework for student exploration.

DCS 266. New Urbanism. 3 Hours.
This course investigates the community development model of New Urbanism which promotes the values of walkability, diversity and connectivity for healthy living and neighborhood sustainability. Students will explore local communities, connecting New Urbanist design principles to community values and social interaction.

DCS 291. Community Ethnography and Public History. 3 Hours.
This experiential course addresses how to investigate and represent local community history and stories through the methodologies of service learning, participant observation, ethnographic research and oral history. This class addresses the concepts of human memory, nostalgia, folklore, storytelling and public history. Students will learn how to use new media technologies, such as digital video, podcasting and website production, as a way to represent community history and culture for the public.

DCS 309. American Independent Film. 3 Hours.
This course will provide a history of the American Independent filmmaking tradition by studying the major stylistic movements, works, and filmmakers of the 1970s-the present.

DCS 390. Life, Liberty, and the Pursuit of Happiness: Representing American Identity on Film. 3 Hours.
An interdisciplinary course in which students investigate the formation and representation of early American identity and produce their own films representing contemporary American identity.

DCS 391. Digital Storytelling. 3 Hours.
This experiential course addresses how to investigate and represent local community history and stories through the methodologies of participant observation, ethnographic research and oral history. This class addresses the concepts of human memory, nostalgia, folklore, storytelling and public history. Students will learn how to use new media technologies, such as digital video, podcasting and website production, as a way to represent community history and culture for the public.

DCS 401. Ethnographic Filmmaking/SL. 6 Hours.
This course is an interdisciplinary course in which students pair up to produce a short documentary film which represents a community in the Birmingham area. The course contains four key elements: 1) community outreach, 2) intro to social science theory and methods, 3) film theory and the aesthetics of filmmaking, and 4) technical aspects of camera work and digital video editing. This is a designated service-learning course intergrating academic learning, civic learning and meaningful service to the community. Preq: Permission of the instructor.

Prerequisites: DCS 101 [Min Grade: C] and DCS 201 [Min Grade: C]

DCS 450. Media and Public Service. 3 Hours.
This course offers students hands-on experience creating and analyzing media pieces about community issues, including documentary films, public service announcements, translation of academic research to lay audiences, and multimedia grant proposals and reports. Emphasis will be on communicating effectively in the non-profit sector. This course is a designated capstone experience. Permission of Instructor.

Prerequisites: DCS 401 [Min Grade: D]

DCS 460. Independent Media Studies. 3-6 Hours.
This course will provide an opportunity for advanced students to pursue individual projects in multimedia studies. Prerequisites: Permission of the Instructor.

Prerequisites: DCS 401 [Min Grade: D]

DCS 470. Internship in Media Studies. 3-6 Hours.
Internships will provide students with the opportunity for hands-on experience with digital technology in workplace setting. This course is a designated capstone experience. Permission of the Instructor.

Prerequisites: DCS 401 [Min Grade: D]

DCS 490. Special Topics in Media. 3 Hours.
Study of thematic topics throughout media studies. This course is a designated capstone experience.

DCS 499. Special Topics in Media Studies. 3 Hours.
Study of thematic topics throughout media studies.

EC-Economics Courses

Courses

EC 110. Economics and Society. 3 Hours.
Economic principles and development of economic analysis. Combines key elements of EC 210 and 211. Primarily intended for majors in School of Education seeking to meet certification requirements; also open to students outside School of Business who wish to survey economics in one course. Not open to entering freshmen; not open to majors in School of Business or economics majors in the College of Arts and Sciences.

EC 210. Principles of Microeconomics. 3 Hours.
Theory of production and value, including problems of monopoly, oligopoly, and distribution of income. Not open to entering freshmen. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

EC 211. Principles of Macroeconomics. 3 Hours.
Economic analysis and its use in dealing with business and governmental problems. National income, price-level, employment, governmental fiscal policies, and international economics. Not open to entering freshmen. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

EC 300. Economic History of the U.S.. 3 Hours.
This course spans the economic history of the U.S. from colonial times to present. Topics covered include the U.S. Constitution, national economy, wars, ethnicity, race, gender, distribution of wealth and power, social conflict and reform, entrepreneurs, workers, workplace, popular culture, and foreign affairs.

EC 301. Money and Banking. 3 Hours.
Money supply, banking system, and other financial institutions; how money affects aggregate economic activity.

Prerequisites: EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00 and EC 211 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAU 2.00
EC 302. Law and Economics. 3 Hours.
This is an introduction to Law and Economics, that is, the application of economic analysis to legal questions. The course offers a survey of core issues (including property, contracts, and torts), an exposition of alternative approaches to those issues, and a discussion of important implications for economics, law, political science, philosophy, public administration, and sociology. The instructor encourages students to concurrently sign up for the course Cooperation and Competition (EC 330).
Prerequisites: (GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

EC 303. Labor Economics. 3 Hours.
Economic analysis in dealing with major aspects of such problems as employment, wages, hours, unionism, labor-management relations, and social security. Influence of psychological and institutional factors.
Prerequisites: (EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C]

EC 304. Microeconomics. 3 Hours.
Advanced economic principles underlying value and distribution with additional training in application of these principles to problems of analysis. Prq: Completion of all pre-business requirements.
Prerequisites: EC 210 [Min Grade: C] and GPAU 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 or GPAO 2.00

EC 305. Macroeconomics. 3 Hours.
Forces determining level of income and employment in economic systems, with special reference to United States. Causes and cures of unemployment. Role of government in maintaining high level of employment.
Prerequisites: GPAU 2.00 and GPAO 2.00 and EC 211 [Min Grade: C] or GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 or GPAO 2.00

EC 306. Health Care Economics. 3 Hours.
This course seeks to apply economic analysis to issues in health care. Students will review the basic tools of economic analysis and discuss the evolving trends and institutional features in the health care industry. Students will then use an economic way of thinking to address contemporary health care issues from an economic perspective. This will include consideration of the supply and demand for health care, hospitals, insurance and managed care, health labor markets, chronic disease, prescription drugs, and government policy.
Prerequisites: EC 210 [Min Grade: C]

EC 308. Economics of Environment. 3 Hours.
Use of economic analysis to examine interaction between economic institutions and physical environment. Specific topics: social costs and benefits of economic growth, interactions between private business and public welfare, and socioeconomic systems and goals.
Prerequisites: GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 or GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 or GPAO 2.00

EC 310. Managerial Economics. 3 Hours.
Economic theory and its application to managerial decision making process. Demand analysis, estimation, cost analysis, market analysis, pricing strategy.
Prerequisites: (EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) and GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 315. Sports Economics. 3 Hours.
An introduction into the economics of both amateur and professional sports. Basic economic principles are used to detail fan demand, team output/success, and the complexities of league/conference organization, sports rules, racial disparities, and government attempts to regulate sports. Specific focus is placed on the use of statistics to evaluate salaries and the most valuable attributes, players, and positions of many sports to produce a win.

EC 320. Behavioral Economics. 3 Hours.
Incorporation of psychology into models of economic behavior. These models are applied to a variety of fields including industrial organization, marketing, and negotiation.
Prerequisites: (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 330. Cooperation and Competition. 3 Hours.
An introduction to game theory, teaching basic concepts necessary for application to problems in intermediate microeconomics (bargaining, cartels, auctions, incentives, contracts). Mathematics used is either self-contained within the course or restricted to the level of introductory microeconomics. Theory is applied to sample problems from business, politics and social life. An introduction to evolutionary game theory is included.
Prerequisites: (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 401. Mathematical Approach in Economics and Business. 3 Hours.
Mathematical approach in economics and business.
Prerequisites: (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and EC 304 [Min Grade: C] or GPAU 2.00 and GPAO 2.00 and EC 304 [Min Grade: C]

EC 403. Monetary Economics. 3 Hours.
Current theories of monetary policy and management, historical development of theory and practice, contemporary policies employed by monetary authorities, institutions concerned, evaluation of policies and reform, and interrelations between monetary factors and economic processes.
Prerequisites: (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and EC 304 [Min Grade: C] or GPAU 2.00 and GPAO 2.00 and EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00

EC 404. Topics in Public Policy. 3 Hours.
Topics in Public Policy.
Prerequisites: (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and GPAU 2.00 and GPAO 2.00

EC 405. Economic Development and Growth. 3 Hours.
Problems of economic development; growth of less developed economies compared with those of advanced economies. Theories of economic development. Policy measures to promote development of growth, with emphasis on measures to accelerate development of countries.
Prerequisites: (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and GPAU 2.00 and GPAO 2.00

EC 407. International Economics. 3 Hours.
Analysis of theoretical principles underlying international trade and investment, and international monetary relations. Study includes the effects on domestic and foreign economies of commercial, monetary and fiscal policies. (Also IB 407).
Prerequisites: (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or GPAU 2.00 and GPAO 2.00 and GPAU 2.00 and GPAO 2.00
EC 408. Topics in the History of Economic Theory. 3 Hours.
The development of economic thought from antiquity to the end of the twentieth century, with emphasis on the synthesis of evolving ideas constituting current economic theory.
Prerequisites: (EC 211 [Min Grade: C] and EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 409. Survey of Econometrics. 3 Hours.
Econometric methods emphasizing mathematical formulation and statistical testing of economic theories. Problems and corrective procedures in single-equation regression estimation, such as multicollinearity, autocorrelation, heteroscedasticity, and lagged variables. Identification, estimation, and applications of simultaneous-equation models.
Prerequisites: (EC 301 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 305 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 301 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (EC 305 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 411. Public Finance. 3 Hours.
Principles of taxation, government expenditures, borrowing, and fiscal administration.
Prerequisites: (EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 413. Urban Economics. 3 Hours.
Economic issues and structure of metropolitan areas. Economic growth and decay of urban regions. Specific topics: housing, education, employment, political economy, and public safety.
Prerequisites: EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00
EC 414. Industrial Organization. 3 Hours.
Structure and performance of monopolistic and oligopolistic industries, emphasizing efficiency, pricing policies, and investment decisions. Extent and nature of concentration in economy as whole.
Prerequisites: (EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 420. Applied Forecasting. 3 Hours.
Practical use of various forecasting techniques on business and economic data. Topics include dynamic regression models, exponential smoothing, forecast criteria, moving averages, seasonality, and univariate Box Jenkins ARIMA modeling.
Prerequisites: (EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 425. Applied Regression Analysis. 3 Hours.
Simple, multilinear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer.
Prerequisites: (QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 440. Economics for Educators. 3 Hours.
Students will gain an understanding of both basic economic principles and entrepreneurship and learn innovative methods of transferring economic knowledge to elementary and secondary students. Students will also become well-versed in the National and Alabama State standards of learning. Only open to education majors and certified teachers in K-12. This class is not open to economics or business majors.
EC 450. Economics, Institutions & Law. 3 Hours.
The course will study the microeconomic and macroeconomic consequences of different institutional environments and arrangements of designed incentives. This will include political, regulatory and legal structures and rules, both as pertains to actual institutions at the macro level (e.g., the Federal Reserve, the IMF, the World Bank) and regulated structures at the micro level (households and firms). The presumed conceptual frameworks will be based on intermediate microeconomics and introductory macroeconomics. Normative justification of institutional designs will be addressed. EC 320 is a recommended prerequisite.
Prerequisites: (EC 211 [Min Grade: C] and EC 304 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 211 [Min Grade: C] and EC 304 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 460. Economics Internship. 3 Hours.
The economics internship program offers qualified students the opportunity to gain first-hand experience in local organizations for a term while receiving academic credit. Participating organizations are expecting to receive high-quality work from the students they sponsor. The active participation by students in actual business decisions of the sponsoring organization is the primary interest of the internship.
Prerequisites: (EC 304 [Min Grade: C] and EC 305 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 304 [Min Grade: C] and EC 305 [Min Grade: C] and GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
EC 490. Advanced Topics in Economics. 3 Hours.
Selected topics in economics.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)
EC 499. Directed Readings in Economics. 1-3 Hour.
Investigation of specific areas in economics.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

ECE-Early Childhood Educ Courses

Courses

ECE 320. Introduction to Curriculum and Teaching. 3 Hours.
Provides basic knowledge of early childhood curriculum for programs serving children birth to age five in a variety of settings. Emphasizes the relationship of child growth and development in the planning and implementation of all areas of curriculum. Whole program overview. Extensive field experience required. Open access.
Prerequisites: EEC 240 [Min Grade: C] or EEC 241 [Min Grade: C]
ECE 331. Creative Learning Expression: Young Child. 1-3 Hour.
Planning and implementation of activities in art, music, movement, and play considering growth patterns of individual child. Emphasis on preserving and maintaining creative expressions. Laboratory experiences. Extensive field experience required. Open access.
ECE 332. Literature for the Young Child. 3 Hours.
Literature suitable for young children (grades Nu3). Reading aloud, storytelling, and other planned experiences. Extensive field experience required. Open access.
ECE 334. Young Children: Family/School. 3 Hours.
Introduction and practicum in early childhood education. Programs, teaching opportunities, professional organizations and publications, trends, contemporary problems, parent involvement, and family relationships. Conducting parent conferences and using volunteers in classroom. Directed observation and participation with children in learning environment required. Extensive field experience required. Open access.
Prerequisites: ECE 240 [Min Grade: C]

ECE 347. Language Experiences for the Young Child. 3 Hours.
Emphasizes the learning processes in language arts and effective teaching strategies for children birth to age five with particular focus on infants and toddlers. Open Access.

ECE 390. Practicum in Early Childhood Education. 1-6 Hours.
Supervised teaching in an early childhood program serving children ages birth to five. Assignments include participation, observation, planning and implementing lessons.
Prerequisites: ECE 320 [Min Grade: C] or EEC 301 [Min Grade: C]

ECE 410. Organize Programs: Young Children. 3 Hours.
Trends, practices, and research in administration, organization, evaluation, and design of early childhood programs. Main focus NAEYC Accreditation.
Prerequisites: ECE 320 [Min Grade: C] or EEC 301 [Min Grade: C]

ECE 445. Young Children: Math/Science/Social Studies. 6 Hours.
Provides for development of concepts required for teaching mathematics, science, and social studies to young children. Emphasizes child growth and development as a basic for planning and teaching the three curricular areas in a variety of programs. Includes teaching methods and use of technology. Extensive field experience required.
Prerequisites: ECE 320 [Min Grade: C] or EEC 301 [Min Grade: C]

ECE 446. Communication Arts/Reading: Young Child. 6 Hours.
Nature of reading and language arts experiences for pre-school children. Technology, materials, experiences, programs, strategies to facilitate development of communication abilities with emphasis on preserving and maintaining creative expression. Integration of learning in areas of listening, speaking, reading, composition, literature, handwriting, spelling and other communication arts. Extensive field experience required.
Prerequisites: ECE 320 [Min Grade: C] or EEC 301 [Min Grade: C]

ECE 448. Infant/Toddler Development. 3 Hours.
The course covers the social-emotional, physical, cognitive, language, and creative development of infants and toddlers and the corresponding appropriate curriculum materials to support development. Extensive field experience required. Open access.

ECE 449. Education Environment: Infant/Parent. 3 Hours.
This course provides an overview of infant and toddler parenting programs. Topics include parent as child's first teacher, teacher as parent educator, organization and management strategies for parent/child educational programming, parent involvement, and family literacy. Extensive field experience required. Open access.
Prerequisites: ECE 448 [Min Grade: C]

ECE 460. Current Topics in Early Childhood Education Assessment. 3 Hours.
In depth experiences in evaluating growth and development of children. Techniques for assessing needs, motivations, self-concept and achievements of children.
Prerequisites: ECE 320 [Min Grade: C] or EEC 301 [Min Grade: C]

ECE 490. Student Teaching in Early Childhood Education I. 9 Hours.
Supervised teaching in early childhood program (grades N-3).
Prerequisites: (ECE 320 [Min Grade: C] or EEC 301 [Min Grade: C]) and ECE 445 [Min Grade: C] and ECE 446 [Min Grade: C] and ECE 460 [Min Grade: C]

ECE 491. Student Teaching in Early Childhood Education II. 3-9 Hours.
Supervised teaching in early childhood program (grades N-3).

ECE 492. Home Visitation Curriculum Projects. 3 Hours.
Field projects in home visitation with parents and children ages 0-5.

ECE 494. Field Work in Early Childhood Education. 3-4 Hours.
Observation and participation experiences with children ages 0-3.
Prerequisites: ECE 448 [Min Grade: C] and ECE 449 [Min Grade: C] and EEC 301 [Min Grade: C]

ECG-Counseling, Human Services Courses

Courses

ECG 150. Career Planning and Management. 3 Hours.
Understanding aptitudes, abilities, and interests as related to career alternatives. Group and individual experiences aid self-direction in planning and career management. Values, preferences, skills, and personal resources matched with educational and employment opportunities using variety of experiences and resources.

ECG 152. Let's BMEN: How to successfully Navigate the collegiate Experience. 1 Hour.
This course is design to be an academic tool for participants in the BMEN program. Academic skills, and resources along with male perspectives of color will also be presented.

ECG 155. Job Search Strategies. 1 Hour.
Current occupational information, employer information, and job market trends. Relevance of academic preparation to world of work. Job search strategies and resume preparation.

ECG 300. Career Mapping. 3 Hours.
Get what you want by identifying and building key skills being sought by employers and graduate school admission committees today. This course provides an interactive exploration into arriving at your destination and having fun along the way. Gain tips and insights from executives in your field into professional development, resume/interviewing, communication, team building, networking (live and virtual), and other key areas necessary to help you present yourself as the applicant of choice. Master these steps and begin to map your journey toward career success.

ECG 420. Alcoholism. 3 Hours.
Emotional, intellectual, psychological, and social aspects of alcoholism.

ECG 422. Strategy for Attitude Devlmt. 3 Hours.
Dynamics of positive and negative attitudes. Techniques and exercises for improving communication, empathy, and awareness. Techniques for determining personal strengths, setting goals, managing time, and developing strong positive attitudes.

ECG 423. Strategy Effective Interviewin. 3 Hours.
Selected interviewing skills described, demonstrated, and practiced in role play with feedback to increase effectiveness in interviewing.
ECG 424. Constructive Conflict Mgmt. 3 Hours.
Strategies of constructive conflict management in multicultural settings. Synthetic culture laboratory organized to practice managing conflict in safe context. Strategies for mediating conflict focus on increased awareness, knowledge, and skills for reframing conflict.

ECG 438. Interpersonal Skills Develop. 3 Hours.
Classroom lectures plus experiential, structured exercises in small groups for development of more effective interpersonal communication skills.

ECG 451. Issues/Helping Professions. 1-3 Hour.
Discussion of issues in the helping professions.

ECG 463. Intro Interpreting for Deaf. 3 Hours.
Basic theories, principles, and practices of interpreting for deaf in general and specialized settings; guidelines appropriate in situational settings. Development of interpreting skills and manual communications skills.
Prerequisites: ECG 462 [Min Grade: C]

ECG 470. Crisis Intervention Techniques. 3 Hours.
Crisis counseling theory, applications of crisis intervention, and crisis situations.

ECG 474. Sem Death Dying and Bereav. 3 Hours.
Attitudes, beliefs, and response to death, dying, and bereavement. Multicultural perspective. Implications for counseling.

ECT-Collaborative Teacher Educ Courses

Courses
ECT 460. Funct Curr Spec Needs Student. 3 Hours.
Methods and strategies for teaching elementary-aged children with low incidence disabilities in an urban school setting. Prerequisites: ECT 451 and ECT 452 and ECT 453.
Prerequisites: ECT 303 [Min Grade: C] and ECT 450 [Min Grade: C] and ECT 451 [Min Grade: C] and ECT 453 [Min Grade: C] and ECT 454 [Min Grade: C]

ECY-Special Education Courses

Courses
ECY 300. Survey of Special Education. 3 Hours.
Characteristic and needs of children and youth with exceptionalities. Special education law and policy, characteristics of children and youth with disabilities and their families, and critical issues in the field of special education. This course fulfills requirements for Ethics and Civil Responsibility (ECR).
Prerequisites: EDU 200 [Min Grade: C] (Can be taken Concurrently)

ECY 301. Behavior Management. 3 Hours.
Behavior Management.
Prerequisites: ECY 300 [Min Grade: C]

ECY 306. Communication Disorders in Children. 3 Hours.
Communication Disorders in Children.
Prerequisites: ECY 300 [Min Grade: C]

ECY 382. Meth and Mat Teach Mentally Retarded Child: Mild/Mod. 3 Hours.
Meth and Mat Teach Mentally Retarded Child: Mild/Mod.
Prerequisites: ECY 300 [Min Grade: C] and ECY 381 [Min Grade: C]

ECY 418. Assessment Procedures with the Exceptional Learner. 3 Hours.
Assessment Procedures with the Exceptional Learner.
Prerequisites: ECY 310 [Min Grade: C] and ECY 430 [Min Grade: C] or ECY 381 [Min Grade: C] and ECY 382 [Min Grade: C]

ECY 494. Special Topics in Education. 1-6 Hour.
Current topics in Education are presented and discussed.

EDA-Art Education Courses

Courses
EDA 483. Methods of Teaching Art. 3 Hours.
Preparation to teach art in schools. Learning experiences necessary for development of essential teaching competencies. Materials and methods in art studio media, technology skills for art classroom, art history and criticism, and current issues in art education.

EDA 484. Methods of Teaching Art Laboratory. 1 Hour.
Observations in schools. Concurrent enrollment in EDA 483 required.

EDA 490. Student Teaching in Art N-12. 3-9 Hours.
Supervised student teaching in elementary and secondary art.

EDA 499. Internship Seminar in Art Educ. 1 Hour.
Problem solving related to situations such as classroom management, grading, professionalism and ethics, legal issues, and teacher’s rights.

EDF-Foundations of Education Courses

Courses
EDF 361. Ethical Issues in Professional Practice. 2 Hours.
Examines professional ethics and legal issues related to teaching, student supervision, contractual obligation, conditions of employment, and other workplace issues related to conduct and practice in the field of public school teaching. Legal mandates and professional codes of ethics are analyzed. Also addressed are the development of professional judgment and of moral decision making abilities.

EDF 362. Foundations of Education I: Social, Historical, Philosophical. 3 Hours.
Realities of contemporary professional education and active participatory field experience in teaching situations. Seminars on current issues and problems in education, role and value of diversity in education, and the construction and implementation of ethically defensible pedagogies. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: EDA 200 [Min Grade: C] (Can be taken Concurrently)

EDF 363. Special Topics in Education Foundations. 3 Hours.
Educational Foundations Special Topics.

EDH-Education Honors Courses

Courses
EDH 300. Classics in Education. 3 Hours.
This course is designed to provide students with an introduction to several significant classic texts in the field of education. It will also model for students skills for critically evaluation of texts and their relevance to education broadly considered. It will also model for students literature review research. They will be guided in the process of writing an effective term paper.
EDH 491. Honors: Education Research. 1-3 Hour.  
This course is designed to enhance students’ research and inquiry skills and professional orientation within a community of learners. Research project under supervision of faculty sponsor. May be repeated for a total of three semester hours credit. Prerequisites: Admission to School of Education Honors Program.

EDH 492. Honors: Educ Service Project. 1-3 Hour.  
This course is designed to engage students in a school or community-based service project that will enrich students’ educational experiences and enhance the lives of the children or other constituents for whom the service is provided. Service project under supervision of faculty sponsor. May be repeated for a total of three semester hours credit. Prerequisites: Admission to School of Education Honors Program.

EDR-Reading Education Courses  

Courses

EDR 341. Beginning Reading Experiences for the Young Child. 3 Hours.  
Beginning reading experiences for the young child.  
Prerequisites: EDR 440 [Min Grade: C]

EDR 440. Developmental Reading I. 3 Hours.  
Materials and methods. Emphasis on planning balanced program and understanding reading process. Extensive field experience required.

EDR 441. Literature for Adolescents. 3 Hours.  
Literary works written for or about adolescents.

EDR 442. Reading in Content Areas. 1.3 Hour.  
Application of principles of reading process to content-area materials and instruction. Designed for elementary, middle, and high school pre-service teachers. Extensive field experience required.  
Prerequisites: EHS 401

EDR 443. Developmental Reading II. 3 Hours.  
Application of principles of reading process to content-area materials and instruction. Designed for elementary and middle school pre-service teachers. Extensive field experience required.  
Prerequisites: EDR 440 [Min Grade: C]

EDR 450. Literature for Elementary/Middle School. 3 Hours.  

EDT-Educational Technology Courses  

Courses

EDT 300. Teaching and Technology. 3 Hours.  
Knowledge and skills of variety of microcomputer applications used in teaching; use of latest information technologies to access available resources on campus, Internet, and e-mail.

EDT 440. Workshops in Education: Technology Issues. 3 Hours.

EDU-Education Courses  

Courses  

EDU 100. Touch the Future. 2-3 Hours.  
Introduction to education for students with the intent to be teachers and students entering professions where a degree in education would be beneficial. Students own experiences will be used as input for developing habits of mind and dispositions necessary for success in the field of education. Required for entering freshmen education majors.

EDU 200. Education as a Profession. 3 Hours.  
Formal introduction to the Teacher Education Program (TEP). Using writing and discussion, the class provides a clear and realistic understanding of issues involved in choosing education as a career. Writing is a significant component of this course.

EDU 210. Writing and Speaking Skills for the Education Professional. 3 Hours.  
Development of essential writing and speaking skills required for successful education practice. Writing is a significant component of this course.

EDU 300. Special Topics in Education. 3 Hours.  
This course will focus on various topics currently trending in education.

EDU 425. Stem Applications for the Classroom. 1 Hour.  
This course will familiarize teacher candidates with STEM applications in the classroom, including state initiatives such as Alabama Math and Science Initiative (AMSTI).

EDU 481. Student Teaching: Early Childhood and Elementary Education. 9 Hours.  
Supervised teaching experience in an inclusive collaborative/elementary school setting providing instruction to elementary students with high and low incidence disabilities. Completion of all coursework on Early Childhood/Elementary/Collaborative Teaching: K-6 Checklists and Permission of advisor required.

EE-Electrical & Computer Egr Courses  

Courses

EE 011. Coop/Internship in EE. 0 Hours.  
Engineering workplace experience in preparation for the student’s intended career.

EE 210. Digital Logic. 3 Hours.  
Number systems and codes. Boolean algebra and combinational logic. Arithmetic and logic circuits. Memory elements. Synchronous sequential logic. Lecture and computer laboratory.  
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C](Can be taken Concurrently)

EE 233. Engineering Programming Methods. 3 Hours.  
Program design techniques, data structures, coding and documentation standards. File I/O. Product design and life cycles. Testing and software tools. Lecture and computer laboratory.  
Prerequisites: (MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C](Can be taken Concurrently) and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or EE 130 [Min Grade: C]))
EE 254. Applied Numerical Methods. 3 Hours.
Selected mathematical and computational topics appropriate to the numerical solution of engineering problems.
Prerequisites: MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or ME 130 [Min Grade: C])

EE 300. Engineering Problem Solving II. 3 Hours.
Selected mathematical and computational topics appropriate to the solution of engineering problems, including probability and statistics.
Prerequisites: MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D])

EE 305. Fundamentals of Electrical Engineering. 3 Hours.
Survey of topics fundamental to field of electrical engineering. For non-engineering majors. Not available for credit toward engineering major.
Prerequisites: MA 109 [Min Grade: C]

EE 312. Electrical Systems. 3 Hours.
Introduction to DC circuit analysis, AC steady-state analysis, first-order transient analysis, ideal transformers, and electrical safety. For non-EE majors.
Prerequisites: MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and PH 221 [Min Grade: C]

EE 314. Electrical Circuits. 3 Hours.
Introduction to DC circuit analysis, AC steady-state analysis, first-order transient analysis, and electrical safety. For EE Majors.
Prerequisites: MA 125 [Min Grade: C] and MA 126 [Min Grade: C] and PH 221 [Min Grade: C]

EE 316. Electrical Networks. 4 Hours.
Analysis of circuits using classical differential/integral techniques, Laplace transforms, and two-port network parameters. Circuit solution using simulation. EE 316L must be taken concurrently. Quantitative Literacy is a significant component of this course.
Prerequisites: EGR 265 [Min Grade: D] or (MA 227 [Min Grade: C] and MA 252 [Min Grade: D][Can be taken Concurrently]) and EH 101 [Min Grade: C] and PH 222 [Min Grade: C] and EE 314 [Min Grade: C] and MA 125 [Min Grade: C][Can be taken Concurrently] and MA 126 [Min Grade: C]

EE 316L. Electrical Networks Laboratory. 0 Hours.
Electrical Networks laboratory component. EE 316 must be taken concurrently.

EE 318. Methods of System Analysis. 3 Hours.
Time-domain and frequency-domain methods for modeling and analyzing continuous and discrete-time signals and systems. Fourier, Laplace, and Z transform methods.
Prerequisites: EE 300 [Min Grade: D] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (EE 312 [Min Grade: C] and EE 314 [Min Grade: C]) and EE 316 [Min Grade: C]

EE 333. Engineering Programming Using Objects. 3 Hours.
Software development emphasizing object-oriented methods. Design and develop programs using existing classes and create their own classes. A graphical user interface framework will be used as extensive example of Object Oriented System. Develop skills in project management, written and oral communication, teams, and an introduction to ethics and intellectual property issues.
Prerequisites: EE 233 [Min Grade: D]

EE 337. Introduction to Microprocessors. 4 Hours.
Application of microcomputers to engineering problems such as data acquisition and control. Topics include CPU architecture, assembly language, and input/output interfacing. EE 337L must be taken concurrently.
Prerequisites: EE 210 [Min Grade: C] and EE 233 [Min Grade: D]

EE 337L. Introduction to Microprocessors Laboratory. 0 Hours.
Introduction to Microprocessors laboratory component. EE 337 must be taken concurrently.

EE 341. Electromagnetics. 3 Hours.
Mathematical techniques used to solve electromagnetics problems. Fundamental concepts and applications for dynamic and static problems. Electromagnetic wave propagation and transmission. Transmission lines.
Prerequisites: PH 222 [Min Grade: D] and EE 300 [Min Grade: D][Can be taken Concurrently] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C] or EE 316 [Min Grade: C])

EE 351. Electronics. 4 Hours.
Solid-state electronics, bipolar junction and field-effect transistor (FET) properties, biasing, frequency response, single and multistage amplifier circuits. EE 351L must be taken concurrently.
Prerequisites: EE 210 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and PH 222 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C] or EE 316 [Min Grade: C])

EE 351L. Electronics Laboratory. 0 Hours.
Electronics laboratory component. EE 351 must be taken concurrently.

EE 361. Machinery I. 4 Hours.
Fundamentals and applications of polyphase circuits, magnetic circuits, transformers, polyphase synchronous and asynchronous machines. EE 361L must be taken concurrently.
Prerequisites: (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and (MA 227 [Min Grade: C] and MA 252 [Min Grade: D] or EGR 265 [Min Grade: D]) and PH 222 [Min Grade: D]

EE 361L. Machinery I Laboratory. 0 Hours.
Machinery I laboratory component. EE 361 must be taken concurrently.

EE 412. Practical Computer Vision. 3 Hours.
Fundamentals and applications of computer vision: image preprocessing, detection, segmentation, registration, classification and recognition, texture and color, visual tracking.
Prerequisites: EGR 265 [Min Grade: C][Can be taken Concurrently] or (MA 227 [Min Grade: C] and MA 252 [Min Grade: C] and EGR 150 [Min Grade: C] and EE 300 [Min Grade: C] and EE 314 [Min Grade: C] and EE 316 [Min Grade: C] and EE 318 [Min Grade: C])

EE 418. Wireless Communications. 3 Hours.
Wireless communication system topics such as propagation, modulation techniques, multiple access techniques, channel coding, speech and video coding, and wireless computer networks.
Prerequisites: EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 421. Communication Systems. 3 Hours.
Prerequisites: EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]
EE 423. Digital Signal Processing. 3 Hours.  
Digital filter analysis and design. FFT algorithms. Applications of digital signal processing in engineering problems such as data acquisition and control. Lecture and computer laboratory.  
**Prerequisites:** EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 426. Control Systems. 3 Hours.  
**Prerequisites:** EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 427. Industrial Control. 3 Hours.  
Power control devices and applications. Relay logic and translation to other forms. Programmable logic controllers. Proportional-integral-derivative and other methods for process control. Modern laboratory instrumentation and man-machine interface software. Lecture and laboratory.  
**Prerequisites:** EE 233 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 431. Analog Integrated Electronics. 4 Hours.  
Advanced analysis and design using op-amps, with emphasis on error analysis and compensation. Applications include signal conditioning for instrumentation, instrumentation amplifiers, nonlinear and computational circuits, Butterworth and Chebyshev filter design, power amplifier design, voltage regulator design, and oscillators. A-to-D and D-to-A conversion methods. Laboratory exercises emphasize design techniques. Lecture and laboratory.  
**Prerequisites:** EE 210 [Min Grade: C] and EE 300 [Min Grade: D] and (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D]

EE 432. Introduction to Computer Networking. 3 Hours.  
Computer networking and engineering standards related to networking. Networking hardware, software, and protocols including TCP/IP protocol suite, Internetworking, LANs, and typical applications.  
**Prerequisites:** EE 233 [Min Grade: C]

EE 433. Engineering Software Solutions. 3 Hours.  
Project planning, specification, design, implementation, and testing of software solutions for engineers. Waterfall model of development and agile development methods. Lecture and computer laboratory.  
**Prerequisites:** EE 233 [Min Grade: D] and EE 333 [Min Grade: D] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or ME 130 [Min Grade: C] or EE 134 [Min Grade: C])

EE 434. Power Semiconductor Electronics. 3 Hours.  
This course covers the fundamentals of power electronics, principles of static power conversions, power semiconductor switches, power converters - DC-DC, DC-AC, and rectifier; pulse width modulation and controller design, circuit design considerations, and applications of power electronics. The course project emphasizes computer-aided analysis and design of power electronic circuits.  
**Prerequisites:** EE 316 [Min Grade: C] and EE 318 [Min Grade: D] and EE 351 [Min Grade: D]

EE 437. Microprocessor Applications. 3 Hours.  
Applications of microprocessors in engineering problems such as data acquisition, control, and real-time input/output. Lecture and laboratory.  
**Prerequisites:** (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C] or EE 130 [Min Grade: C] or ME 130 [Min Grade: C]) and EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 337 [Min Grade: D]

EE 444. Real-Time Process & Protocols. 3 Hours.  
Hands-on laboratory course covering topics in real-time computer systems such as algorithms, state-machine implementations, communication protocols, instrumentation, and hardware interfaces.  
**Prerequisites:** EE 233 [Min Grade: D] and EE 337 [Min Grade: D]

EE 447. Internet/Intranet Application Development. 3 Hours.  
Development of models and applications using Internet/Intranet technologies such as Java, JavaScript, Dynamic HTML, server side scripting, multi-tier models, and XML. Lecture and computer laboratory.  
**Prerequisites:** EE 233 [Min Grade: D]

EE 448. Software Engineering Projects. 3 Hours.  
Object-oriented concepts and design. Unified Modeling Language and design patterns. Provides a project environment for implementation of systems using object-oriented techniques. Lecture and computer laboratory.  
**Prerequisites:** EE 233 [Min Grade: D] and EE 333 [Min Grade: D]

EE 452. VHDL Digital Systems Design. 3 Hours.  
Digital system design, verification, and simulation using VHDL. Lecture and laboratory.  
**Prerequisites:** EE 337 [Min Grade: D] and EE 337 [Min Grade: D]

EE 458. Medical Instrumentation. 3 Hours.  
Fundamental operating principles, applications, and design of electronic instrumentation used in measurement of physiological parameters.  
**Prerequisites:** EE 351 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C]

EE 461. Machinery II. 3 Hours.  
Physical principles of DC machines. Mathematical analysis of generator designs using equivalent circuits and magnetization curves. Calculation of motor speed, torque, power, efficiency, and starting requirements. Solid-state speed control systems.  
**Prerequisites:** EE 361 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C]

EE 471. Power Systems I. 3 Hours.  
Components of power systems. Performance of modern interconnected power systems under normal and abnormal conditions. Calculation of inductive and capacitive reactances of three-phase transmission lines in steady state.  
**Prerequisites:** EE 361 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C]

EE 472. Power Systems II. 3 Hours.  
**Prerequisites:** EE 471 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C] and EE 361 [Min Grade: D]
EE 473. Protective Relaying of Power Systems. 3 Hours.
Operating principles of protective relays. Protection of transmission lines, generators, motors, transformers, and buses.
Prerequisites: (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 361 [Min Grade: D]

EE 485. Engineering Operations. 3 Hours.
Economic, procedural, planning, and control aspects of engineering projects. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: (EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 300 [Min Grade: D] and EE 337 [Min Grade: D] and EE 351 [Min Grade: D] and EE 361 [Min Grade: C] and EE 381 [Min Grade: D] and EE 385 [Min Grade: D] and EE 387 [Min Grade: D] and EE 389 [Min Grade: D] and EE 391 [Min Grade: D] and EE 398 [Min Grade: D] and EE 421 [Min Grade: D] and EE 426 [Min Grade: D] and EE 451 [Min Grade: D]

EE 489. Undergraduate Engineering Research. 0 Hours.
Undergraduate research experiences in electrical engineering.
Prerequisites: (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D] and EE 337 [Min Grade: D] and EE 351 [Min Grade: D] and EE 381 [Min Grade: D] and EE 385 [Min Grade: D] and EE 387 [Min Grade: D] and EE 389 [Min Grade: D] and EE 391 [Min Grade: D] and EE 398 [Min Grade: D] and EE 421 [Min Grade: D] and EE 426 [Min Grade: D]

EE 490. Undergraduate Engineering Research. 0 Hours.
Undergraduate research experiences in electrical engineering.
Prerequisites: (EE 312 [Min Grade: C] or EE 314 [Min Grade: C]) and EE 316 [Min Grade: C] and EE 318 [Min Grade: D] and EE 337 [Min Grade: D] and EE 351 [Min Grade: D] and EE 381 [Min Grade: D] and EE 385 [Min Grade: D] and EE 387 [Min Grade: D] and EE 389 [Min Grade: D] and EE 391 [Min Grade: D] and EE 398 [Min Grade: D] and EE 421 [Min Grade: D] and EE 426 [Min Grade: D]

EE 491. Special Topics in (Area). 3 Hours.
Topic assigned with course.

EE 492. Honors Research I. 4 Hours.
Departmental honors students work closely with faculty to develop research skills.
Prerequisites: EGR 301 [Min Grade: P](Can be taken Concurrently)

EE 493. Honors Research II. 4 Hours.
Departmental honors students work closely with faculty to develop research skills.
Prerequisites: EGR 301 [Min Grade: P]

EE 497. Team Design Project. 3 Hours.
Senior Design Team Project Course. Capstone design project: analysis, design, and implementation of assigned team project, including design review, demonstration, and documentation. Must have an approved Application for Degree on file and must be in final semester of his/her program.
Prerequisites: EE 485 [Min Grade: D] and EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 300 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C] and EE 381 [Min Grade: D] and EE 337 [Min Grade: D] and EE 351 [Min Grade: D] and EE 381 [Min Grade: D] and EE 498 [Min Grade: D] and EE 333 [Min Grade: D] and EE 341 [Min Grade: D] and EE 347 [Min Grade: D] and EE 349 [Min Grade: D] and EE 351 [Min Grade: D] and EE 355 [Min Grade: D] and EE 357 [Min Grade: D] and EE 359 [Min Grade: D] and EE 361 [Min Grade: D] and EE 363 [Min Grade: D] and EE 365 [Min Grade: D] and EE 367 [Min Grade: D] and EE 369 [Min Grade: D] and EE 371 [Min Grade: D] and EE 373 [Min Grade: D] and EE 375 [Min Grade: D] and EE 377 [Min Grade: D] and EE 379 [Min Grade: D] and EE 381 [Min Grade: D] and EE 383 [Min Grade: D] and EE 385 [Min Grade: D] and EE 387 [Min Grade: D] and EE 389 [Min Grade: D] and EE 391 [Min Grade: D] and EE 393 [Min Grade: D] and EE 395 [Min Grade: D] and EE 397 [Min Grade: D] and EE 399 [Min Grade: D] and EE 401 [Min Grade: D] and EE 403 [Min Grade: D] and EE 405 [Min Grade: D] and EE 407 [Min Grade: D] and EE 409 [Min Grade: D] and EE 411 [Min Grade: D] and EE 413 [Min Grade: D] and EE 415 [Min Grade: D] and EE 417 [Min Grade: D] and EE 419 [Min Grade: D] and EE 421 [Min Grade: D] and EE 423 [Min Grade: D] and EE 425 [Min Grade: D] and EE 427 [Min Grade: D] and EE 429 [Min Grade: D] and EE 431 [Min Grade: D] and EE 433 [Min Grade: D] and EE 435 [Min Grade: D] and EE 437 [Min Grade: D] and EE 439 [Min Grade: D] and EE 441 [Min Grade: D] and EE 443 [Min Grade: D] and EE 445 [Min Grade: D] and EE 447 [Min Grade: D] and EE 449 [Min Grade: D] and EE 451 [Min Grade: D] and EE 453 [Min Grade: D] and EE 455 [Min Grade: D] and EE 457 [Min Grade: D] and EE 459 [Min Grade: D] and EE 461 [Min Grade: D] and EE 463 [Min Grade: D] and EE 465 [Min Grade: D] and EE 467 [Min Grade: D] and EE 469 [Min Grade: D] and EE 471 [Min Grade: D] and EE 473 [Min Grade: D] and EE 475 [Min Grade: D] and EE 477 [Min Grade: D] and EE 479 [Min Grade: D] and EE 481 [Min Grade: D] and EE 483 [Min Grade: D] and EE 485 [Min Grade: D] and EE 487 [Min Grade: D] and EE 489 [Min Grade: D] and EE 491 [Min Grade: D] and EE 493 [Min Grade: D] and EE 495 [Min Grade: D] and EE 497 [Min Grade: D] and EE 499 [Min Grade: D]

EE 498. Team Design Project I. 3 Hours.
Senior Design Team Project Course Part I. Analysis and design of assigned team project course, including design review and documentation. Must have an approved Application for Degree on file and must be in final year of his/her program.
Prerequisites: EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 300 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C] and EE 381 [Min Grade: D] and EE 337 [Min Grade: D] and EE 485 [Min Grade: D] (Can be taken Concurrently) and EE 351 [Min Grade: D] (Can be taken Concurrently)

EE 499. Team Design Project II. 3 Hours.
Senior Design Team Project Part II. Capstone design project: design and implementation of assigned team project, including design review, demonstration, and documentation. Must have an approved Application for Degree on file and must be in final year of his/her program.
Prerequisites: EE 210 [Min Grade: C] and EE 233 [Min Grade: D] and EE 300 [Min Grade: D] and EE 312 [Min Grade: C] or EE 314 [Min Grade: C] and EE 316 [Min Grade: C] and EE 381 [Min Grade: D] and EE 337 [Min Grade: D] and EE 485 [Min Grade: D] and EE 351 [Min Grade: D] and EE 498 [Min Grade: D] and EE 333 [Min Grade: D] and EE 341 [Min Grade: D] (Can be taken Concurrently) and EE 421 [Min Grade: D] (Can be taken Concurrently) and EE 426 [Min Grade: D] (Can be taken Concurrently) and EE 431 [Min Grade: D] (Can be taken Concurrently)

EEC-Elem & Early Childhood Courses

Courses

Interrelationships of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on children's growth. Early childhood (birth-6 years). Includes field experiences.

Interrelationships of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on children's growth. Middle childhood (6-12 years). Includes field experiences.

EEC 300. Child Development/Family Relationships. 3-4 Hours.
Interrelationship of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on human growth from conception through adolescent years. Extensive field experience required.

EEC 301. Introduction to P-6 Education. 3 Hours.
Basic knowledge of early childhood and elementary school curricula in variety of settings from infancy programs through elementary school. Theories and practical approaches to teaching and to curriculum development; relationship between child growth and development and areas of curriculum. Observation in early childhood and elementary programs required. Extensive field experience required.

EEC 302. Expressive Arts (P-6). 1 Hour.
Creativity through numerous experiences in music, theatre, dance, and visual arts. Experiences correlate with literacy skills, critical thinking skills, symbols, and images that can be directly applied to both teacher-centered and child-centered methods of teaching. Extensive field experience required.

EEC 402. Primary Math Methods. 3 Hours.
A mathematics course focusing on emergent mathematical concepts for young children. Extensive field experience required.
EEC 405. Children’s Literature in Early Childhood and Elementary Education. 3 Hours.

EEC 406. Language Arts in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Communication-based approach in developing effective language arts program. All aspects of language arts program addressed. Extensive field experience required.

EEC 411. Discipline and Classroom Management. 3 Hours.
Theoretical and practical application of various theories of discipline. Development of skills in management of student behavior and classroom environment.

EEC 412. Math in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Scope, sequence, and content of mathematics program. Computational skills and problem solving. Field experiences required.
Prerequisites: EEC 405 [Min Grade: C] and EEC 406 [Min Grade: C] and EDR 440 [Min Grade: C] and EEC 402 [Min Grade: C]

EEC 413. Science in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Scope, sequence, and content of science program. Inquiry, science process skills, and concept development. Extensive field experience required.
Prerequisites: EEC 405 [Min Grade: C] and EEC 406 [Min Grade: C] and EDR 440 [Min Grade: C] and EEC 402 [Min Grade: C]

EEC 414. Social Studies in Early Childhood and Elementary Education. 3 Hours.
Materials and methods. Scope, sequence, and content of social studies curriculum. Teaching strategies, program articulation, and instructional planning. Extensive field experience required.
Prerequisites: EEC 405 [Min Grade: C] and EEC 406 [Min Grade: C] and EDR 440 [Min Grade: C] and EEC 402 [Min Grade: C]

EEC 415. Learning Environments. 3 Hours.
Theoretical approaches that focus on child centered curriculum, classroom management, discipline strategies and cultural, linguistic, and developmentally appropriate instruction. Extensive field experience required.

EEC 440. Workshop in Education. 1-6 Hour.
Strengthens proficiency in teaching area. Specific teaching area and themes vary. May be repeated for maximum of nine hours of differing topics.

EEC 460. Current Topics in Education. 3 Hours.
Topics vary. May be repeated for maximum of six hours of differing topics.

EEC 465. Teaching Globe and Map Skills. 3 Hours.
Concepts and skills related to understanding functional use of globes and maps. Strategies and methods for teaching concepts and skills to children. Curriculum scope, sequence, continuity, and application within social studies program. Materials and resources for teaching. Admission to TEP required.

EEC 490. Internship in P-3/3-6. 9 Hours.
Supervised capstone teaching experience in early childhood (P-3) and elementary (K-6) program. Gradual assumption of responsibility for planning and teaching for the entire class (minimum of 12 weeks). Supervision in working with resource professionals and parents.

EEC 491. Internship Seminar in P-6 Education. 1,3 Hour.
Supports and extends efforts of student teaching. Problem solving related to classroom situations such as classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship.

EEC 492. Individual Curriculum Project: Area Specific. 3-6 Hours.
Field projects in curriculum modification and improvement of classroom practice. Permission of instructor required.

EEC 493. Individual Readings. 1-3 Hour.
Individualized readings on special topics. Permission of instructor required.

EEC 494. Field Work in Early Childhood and Elementary Education. 2 Hours.
Observation and participation experiences with children.

EGR-Engineering Courses

Courses

EGR 110. Introduction to Engineering I. 1 Hour.
Introduction to profession of engineering, engineering specialties; education requirements; team work and present and future societal demands on profession.
Prerequisites: MA 105 [Min Grade: C](Can be taken Concurrently) or MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: C](Can be taken Concurrently)

EGR 111. Introduction to Engineering II. 1 Hour.
Ethics and safety; career opportunities in engineering, introduction to engineering design and technical communications; team work and present and future societal demands on profession.
Prerequisites: EGR 110 [Min Grade: C]

EGR 125R. Engineering Applications of Calculus I. 1 Hour.
An application based course designed to reinforce concepts from MA 125.

EGR 126R. Engineering Applications of Calculus II. 1 Hour.
An application based course designed to reinforce concepts from MA 126.

EGR 150. Computer Methods in Engineering. 3 Hours.
An introduction to engineering computation using MATLAB language and Excel. Basic programming skills using built-in functions is emphasized. Generation and manipulation of vectors and matrices, operations on vectors/matrices, plotting, iterations calculations. If/else and other logical constructs, and data input/output are covered. Engineering applications are used throughout the course.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C](Can be taken Concurrently)

EGR 197. Engineering Approaches to Problem Solving I. 1-3 Hour.
EGR 197 offers an introduction to a rationally developed method of solving practical problems. This is engineering. Starting with the ancient Greeks, who initiated reasoned speculation, and the Romans, who made practical use of it, the course develops an understanding of why we approach problems the way we do.

EGR 198. Engineering Approaches to Problem Solving II. 1-3 Hour.
Building on engineering principles, focus on the engineering process. Develop and practice good communication, collaboration and presentation skills. Explore interdisciplinary approaches through hands-on projects.
EGR 199. Engineering Approaches to Problem Solving III. 1-3 Hour.
EGR 199 builds on knowledge gained in EGR 197 and 198. While EGR 197 & 198 regarded the theories and practice of integrational engineering principles, this course focuses on innovation. The hows of creating new solutions to old problems will be explored.

EGR 200. Introduction to Engineering Design. 2 Hours.
Profession of engineering; ethics and safety, engineering specialties and career opportunities, educational requirements, introduction to engineering design, team work and technical communications, and present and future societal demands on profession.
Prerequisites: (MA 102 [Min Grade: C] or MA 105 [Min Grade: C] Can be taken Concurrently) or MA 106 (Min Grade: C)(Can be taken Concurrently) or MA 107 (Min Grade: C)(Can be taken Concurrently) or MA 125 (Min Grade: C)(Can be taken Concurrently)

EGR 265. Math Tools for Engineering Problem Solving. 4 Hours.
Designed to allow engineering majors to utilize the terminology and problem-solving approaches inherent to engineering, while completing their mathematical preparation.
Prerequisites: MA 126 (Min Grade: C]

EGR 301. Honors Research I. 1 Hour.
Introduces students to research methodology, ethics, data analysis, and technical communication. Students must be invited into program in order to enroll.
Prerequisites: (MA 227 [Min Grade: C] or EGR 265 [Min Grade: D])

EGR 400. Special Topics in (Study Abroad). 9 Hours.
Independent studies in various subject and/or service areas outside the state of Alabama or the continental United States.

EGR 410. Engineering Service Learning in Education. 1-6 Hour.
Course provides students an opportunity to help students in K-12 to analyze and solve problems using engineering concepts and design process to engage and excite them about engineering, science, and technology.

EGR 420. Engineering in Service Learning through EiSAL. 6 Hours.
This course will allow engineering students the opportunity to communicate and live in other cultural environments, allowing them to share interdisciplinary engineering design and analysis in a real-world setting. It will also allow them the opportunity to work in multi-cultural groups to solve a common problem.

EGR 440. Social Responsibility in Global Health. 1 Hour.
This course provides students with an understanding of key social and economic concepts of global health that, together with an understanding of interprofessional collaboration and community partnerships, will enable them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners.

EGR 441. Interprofessional Collaboration (IPC) and Community Partnerships in Global Health. 1 Hour.
This course provides students with an understanding of principles of interprofessional collaboration and community partnerships that, together with key social and economic concepts of global health, enables them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners.

EGR 442. EGR Service Learning in Intropoфессионаl Global Health Service Learning I: Project Planning. 1 Hour.
This course provides students with an opportunity to apply principles of interprofessional collaboration, community partnerships, and global health in the development of a plan to address a global health problem in collaboration with a community partner. The course is open to undergraduate and graduate students who are enrolled in two co-requisite courses that are requirements for students participating in the global health service learning program at the University of Alabama at Birmingham.

EGR 450. Engineering Service Learning: Teaching Experiences. 1 Hour.
This course provides engineering students the opportunity to assist engineering faculty and fellow students in a tutorial environment by serving as teaching assistants in engineering service courses.

EGR 490. Special Topics in (Area). 6 Hours.
Special Topics in engineering.

EGR 499. Industrial Distribution Senior Design Project. 4 Hours.
Capstone design project: interdisciplinary design teams, ethics, materials selection, the design process, development of a proposal, project planning and scheduling, project execution and resource scheduling. Successful completion and oral defense of a design project. Limited to students majoring in Industrial Distribution.

**EH-English Courses**

**Courses**

**EH 091. Introduction to College English. 5 Hours.**
Focuses on connections between reading and writing, especially as they relate to a writer's purpose and development of academic writing. Includes review of grammar, punctuation, and usage, with emphasis on editing skills and writing effective paragraphs and expository essays. Required for students who score below 20 on the English or Reading portions of the ACT test. Prepares students for EH 101; may not be used for fulfillment of any degree requirement.

**EH 096L. Introduction to Freshman Writing I. 3 Hours.**
EH 106L provides individualized, hands-on support to students in EH 106 through writing studio sessions with their EH 106 instructor and tutors in the University Writing Center. Graded pass/fail. Co-requisite with EH 106. Students must pass EH 106L in order to make a C or above in EH 106.

**EH 097L. Introduction to Freshman Writing II. 2 Hours.**
EH 107L provides individualized, hands-on support to students in EH 107 through writing studio sessions with their EH 107 instructor and tutors in the University Writing Center. Graded pass/fail. Co-requisite with EH 107. Students must pass EH 107L in order to make a C or above in EH 107.

**EH 101. English Composition I. 3 Hours.**
Process and final product of expository and analytical essays. Research and documentation required on most essays. Students must receive grade of C or higher in EH 101 and 102 to complete Core Curriculum requirement in English language. (Also see CLEP examinations and AP examinations.).
Prerequisites: EH 091 [Min Grade: C] or (A01 20 and A03 20) or S01 480 or (EHWS 29 and EHRS 18)
EH 102. English Composition II. 3 Hours.
Process and final product of argumentative essays. Research and documentation required on most essays. Students must receive grade of C or higher in EH 101 or EH 102 to complete Core Curriculum requirement in English Language. (Also see CLEP examinations and AP examinations.)
Prerequisites: EH 101 [Min Grade: C]

EH 105. Ada Long Creative Writing Workshop. 1 Hour.
Introductory course in creative writing for high school students with demonstrated creative writing abilities.

EH 106. Introduction to Freshman Writing I. 3 Hours.
English 106 provides a hands-on, individualized study of expository and analytical writing, including developing strong processes of drafting, revising and editing. Co-requisite with EH 096L. EH 106 and EH 096L are required for students who score below 20 on the English or Reading portions of the ACT test. Students must receive grade of C or higher in EH 106 and grade P for EH 096L and grade of C or higher in EH 107 and grade P for EH 097L to complete Core Curriculum in English Language. (Also see CLEP examinations and AP examinations.)

EH 106L. Introduction to Freshman Writing I--Lab. 3 Hours.
EH 106L provides individualized, hands-on support to students in EH 106 through writing studio sessions with their EH 106 instructor and tutors in the University Writing Center. Graded pass/fail. Co-requisite with EH 106. Students must pass EH 106L in order to make a C or above in EH 106.

EH 107. Introduction to Freshman Writing II. 3 Hours.
English 107 provides a hands-on, individualized study of research, academic writing, and argumentation, including developing strong processes of drafting, revising and editing. Co-requisite with EH 097L. EH 107 and EH 097L are required for students who score below 20 on the English or Reading portions of the ACT test. Students must receive grade of C or higher in EH 106 and grade P for EH 096L and grade of C or higher in EH 107 and grade P for EH 097L to complete Core Curriculum in English Language. (Also see CLEP examinations and AP examinations.)
Prerequisites: EH 106 [Min Grade: C] and EH 106L [Min Grade: P]

EH 107L. Introduction to Freshman Writing II--Lab. 2 Hours.
EH 107L provides individualized, hands-on support to students in EH 107 through writing studio sessions with their EH 107 instructor and tutors in the University Writing Center. Graded pass/fail. Co-requisite with EH 107. Students must pass EH 107L in order to make a C or above in EH 107.
Prerequisites: EH 106 [Min Grade: C] and EH 106L [Min Grade: P]

EH 202. English Composition II: Scientific and Technical Communication. 3 Hours.
This course will be paired with EH 102, enrolling students from the Science and Technology Honors Program who have already completed (or received credit for) EH 102. In addition to covering material required for all sections of EH 102, this course introduces students to the specific rhetorical elements of scientific and technical discourse.
Prerequisites: EH 101 [Min Grade: C] and EH 102 [Min Grade: C]

EH 203. Writing in Birmingham. 3 Hours.
Improvement of skills for public writing, using Birmingham as geographical, historical, and institutional context. Emphasis on issues related to Birmingham's past and present, including the ethics and civic responsibilities of Birmingham residents. Ethics and Civic Responsibility and Writing are significant components of this course.
Prerequisites: EH 102 [Min Grade: C]

EH 205. Introduction to Creative Writing. 3 Hours.
An introduction to the writing of fiction, poetry, and the creative essay. Emphasis on fundamentals of writing creatively, with students producing original work in each of the three genres.
Prerequisites: EH 102 [Min Grade: C]

EH 210. Interpreting Film. 3 Hours.
Introduction to film analysis, surveying the language of film, the structure of film narrative, major genres, and the relationship between film and its social context.
Prerequisites: EH 102 [Min Grade: C]

EH 214. Introduction to Literature: Special Topics. 3 Hours.
Investigation of a literary topic or movement, incorporating a variety of forms, materials, and perspectives. Writing is a significant component of this course.
Prerequisites: EH 102 [Min Grade: C]

EH 216. Introduction to Literature. 3 Hours.
Short stories, novellas, poems, and plays from variety of historical periods and cultures. Emphasis on techniques of each genre. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]

EH 217. World Literature I: Before 1660. 3 Hours.
World literature before 1660. Emphasis on writing and literary analysis. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]

EH 218. World Literature II: 1660-Present. 3 Hours.
World literature since 1660. Emphasis on writing and literary analysis. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]

EH 221. British and Irish Literature I: Before 1800. 3 Hours.
British/Irish literature from Anglo-Saxon period to end of eighteenth century with emphasis on writing and literary analysis. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]

EH 222. British and Irish Literature II: 1800-Present. 3 Hours.
British/Irish literature from end of eighteenth century into twentieth century with emphasis on writing and literary analysis. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]

EH 223. American Literature I: Before 1865. 3 Hours.
American literature from 1620 to 1865 with emphasis on writing and literary analysis. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]

EH 224. American Literature II: 1865-Present. 3 Hours.
American literature 1865 to present with emphasis on writing and literary analysis. Writing is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Literature.
Prerequisites: EH 102 [Min Grade: C]
EH 300. Engineering Communication. 2 Hours.
Introduces engineering students to the theory and practice of communicating effectively in various organizational contexts. Subjects covered include managing and producing professional reports, proposals, and feasibility studies; communicating ethically in the workplace; and presenting ideas to multiple audiences in written and oral formats. Required for most undergraduate engineering majors.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C]) or EGR 200 [Min Grade: C] or EGR 100 [Min Grade: C] and EH 102 [Min Grade: C]

EH 301. Reading, Writing, and Research for English Majors. 3 Hours.
Designed to improve skills for critical writing about literary texts. Strong emphasis on analytical thinking and on the ethics of argumentation. Required for English majors; recommended prior to taking 400-level courses.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 302. Intermediate Writing. 3 Hours.
This course is designed for non-English majors who wish to improve the quality of their writing.
Prerequisites: EH 102 [Min Grade: C]

EH 303. Advanced Composition. 3 Hours.
Improvement of skills for academic and public writing, focusing on analysis and critique. Writing is a significant component of this course.
Prerequisites: EH 102 [Min Grade: C]

EH 304. Editing in Professional Contexts. 3 Hours.
Theory and practice of editorial/rhetorical concerns throughout writing process, particularly as related to professional contexts. Writing is a significant component of this course.
Prerequisites: EH 102 [Min Grade: C]

EH 305. Beginning Poetry Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 306. Beginning Poetry Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 307. Beginning Creative Nonfiction Writing Workshop. 3 Hours.
Seminar teaching fundamentals for beginners; emphasis on techniques and style through readings and student's own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 308. Beginning Creative Nonfiction Writing Workshop. 3 Hours.
Seminar teaching fundamentals for beginners; emphasis on techniques and style through readings and student's own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 309. Beginning Fiction Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 310. Beginning Fiction Writing Workshop. 3 Hours.
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing.
Prerequisites: EH 102 [Min Grade: C]

EH 311. English Internship. 3 Hours.
On-campus and off-campus training positions in fields utilizing language and writing skills, with some positions offering external funding. Students should contact the Director of Internships to discuss available positions and application procedures. May be counted as elective only in professional writing concentration and writing minor with approval of the Undergraduate Director.
Prerequisites: EH 102 [Min Grade: C]

EH 315. Introduction to Professional Writing. 3 Hours.
Introduces students to professional writing as a discipline and teaches them to compose professional documents. Recommended prior to taking 400-level courses.

EH 318. Science Fiction. 3 Hours.
Modern science fiction, including novels and short stories by Asimov, Heinlein, LeGuin, and others.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 324. African-American Special Topics. 3 Hours.
See Class Schedule for Topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 326. Pre-1800 Literature: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 327. Post-1800 Literature: Special Topics. 3 Hours.
See Class Schedule for Topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 328. English Elective: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 329. Literature of the Vikings. 3 Hours.
Old Norse mythology, poetry, and sagas in translation. Background for Beowulf.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 330. Professional Writing: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 332. Public Discourse: Special Topics. 3 Hours.
See class schedule for topic. May be repeated.
Prerequisites: EH 102 [Min Grade: C]

EH 333. Twentieth Century Theater. 3 Hours.
Study of major works in 20th century drama.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 334. Developing Digital Documents. 3 Hours.
Provides students the opportunity to plan, write, and design documents using computer aided publishing technologies.
Prerequisites: EH 102 [Min Grade: C]
EH 350. Introduction to Linguistics. 3 Hours.
Introduction to the scientific study of language with a main focus on principles underlying phonology morphology, syntax and semantics. Relationship between language and society, psycholinguistics and language typology may also be addressed.
Prerequisites: EH 102 [Min Grade: C]

EH 351. Structure of English. 3 Hours.
Description and analysis of present-day English grammar with particular attention paid to the structure of phrases, clauses and sentences, including parts of speech, coordination, subordination, tense, aspect, voice, grammatical functions, agreement and clause types.
Prerequisites: EH 102 [Min Grade: C]

EH 352. The Structure of English Words. 3 Hours.
Introduction to English vocabulary elements and word formation, including topics in history of English and sound patterns as these topics relate to word formation. Does not count as literature for Core Curriculum requirement.
Prerequisites: EH 102 [Min Grade: C]

EH 355. Introduction to Sociolinguistics. 3 Hours.
Social factors that play role in language usage and learning; emphasis on American English.
Prerequisites: EH 102 [Min Grade: C]

EH 356. Semantics. 3 Hours.
Meaning in language with reference to questions of synonymy, ambiguity, and language use.
Prerequisites: EH 102 [Min Grade: C]

EH 357. English Phonetics. 3 Hours.
Sound patterning of languages.
Prerequisites: EH 102 [Min Grade: C]

EH 365. African American Literature, 1746-1954. 3 Hours.
Cultural values from colonial writer Lucy Terry, through slavery and emancipation, to Ralph Ellison and writers of early 1950s. Emphasis on role of diversity and how historical issues of race relate to modern contexts. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 366. African American Literature, 1954-Present. 3 Hours.
Cultural values from James Baldwin in 1950s, through black nationalist, civil rights, and black feminist movements, to contemporary writers such as Ishmael Reed, Charles Johnson, and Toni Morrison. Emphasis on role of diversity and how historical issues of race relate to modern contexts. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 367. Southern Literature. 3 Hours.
Literature of American South: Faulkner, Jefferson, Douglass, Chopin, O'Connor, and others.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 369. The American Dream. 3 Hours.
Literature expressing values and ideals of American people from Hawthorne and Thoreau to Richard Wright and Adrienne Rich.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 376. Shakespeare. 3 Hours.
Five or six plays: one history, one comedy, three major tragedies. Intensive study of two or more tragedies.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 389. Bible as Literature. 3 Hours.
Literary themes and styles of Old and New Testaments.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 393. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 102 [Min Grade: C]

EH 401. Tutoring Writing. 3 Hours.
Seminar focusing on the improvement of writing skills through understanding theories of tutoring. Preparation of future teachers for tutor training and writing center development. Writing is a significant component of this course.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C] or EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 402. Writing in Popular Periodicals. 3 Hours.
Current theory regarding production, distribution, and consumption of popular periodicals, with extensive practice contributing to these sources. Writing is a significant component of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 403. Business Writing. 3 Hours.
Advanced writing course focusing on writing clearly and ethically in professional business contexts, with particular emphasis on memos, letters, resumes, and reports. Writing, Ethics and Civic Responsibility are significant components of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 204 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 404. Technical Writing. 3 Hours.
Advanced writing concentrating on short informal and long formal reports. Quantitative literacy is a significant component of the course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 405. Poetry Writing Workshop (Seminar). 3 Hours.
Intermediate poetry seminar conducted through critique of student writing.
Prerequisites: EH 305 [Min Grade: C] or EH 306 [Min Grade: C]
EH 406. Poetry Writing Workshop (Seminar). 3 Hours.
Intermediate poetry seminar conducted through critique of student writing.
Prerequisites: EH 305 [Min Grade: C] or EH 306 [Min Grade: C]

EH 407. Creative Nonfiction Writing Workshop (Seminar). 3 Hours.
Intermediate creative nonfiction seminar conducted through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C]

EH 408. Creative Nonfiction Writing Workshop (Seminar). 3 Hours.
Intermediate creative nonfiction seminar conducted through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C]

EH 409. Fiction Writing Workshop (Seminar). 3 Hours.
Intermediate prose fiction seminar conducted through critique of student writing.
Prerequisites: EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 411. Capstone Internship. 3 Hours.
This course is available to qualified English majors who wish to apply their knowledge and skills to a work setting. Students will fulfill the requirements for a university capstone course by reflecting on the applicability of disciplinary knowledge to internship responsibilities. Students should contact the Director of Internships to discuss available positions and application procedures.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 411L. Lab Section for Capstone Internship. 0 Hours.
Lab to supplement the Capstone Internship.

EH 412. Forms of Poetry. 3 Hours.
Study of prosody and works of major formalist poets. Includes writing poems in received forms and modes and critiquing those in workshop setting.
Prerequisites: EH 405 [Min Grade: C] or EH 406 [Min Grade: C]

EH 413. Forms of Creative Nonfiction. 3 Hours.
Intensive study of one or more major nonfiction forms such as memoir, essay, or literary journalism. Includes writing nonfiction forms and critiquing them in a workshop setting.
Prerequisites: EH 407 [Min Grade: C] or EH 408 [Min Grade: C] or EH 409 [Min Grade: C] or EH 410 [Min Grade: C]

EH 414. Modern British and European Drama. 3 Hours.
Techniques and problems of modern European drama: Ibsen, Shaw, Chekhov, Synge, Pirandello, Brecht, Beckett, and others.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 415. Forms of Fiction. 3 Hours.
Intensive study of one or more aspects of fiction. Includes writing and critiquing in a workshop setting.
Prerequisites: EH 407 [Min Grade: C] (Can be taken Concurrently) or EH 408 [Min Grade: C] or EH 409 [Min Grade: C] or EH 410 [Min Grade: C]

EH 416. Modern American Poetry. 3 Hours.
Selections from Frost, Stein, Stevens, Pound, Eliot, Williams, Doolittle, Jeffers, Moore, McKay, Loy, Toomer, Crane, Hughes, and others.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)
EH 432. Public Discourse: Special Topics. 3 Hours.
See course schedule for topics. Counts as Public Discourse in the English major concentration in Professional Writing and the English minor in Writing.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 222 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 433. Academic Writing. 3 Hours.
Introduction for students in all disciplines, to the processes of scholarly inquiry and the most common genres of academic writing, including critiques, bibliographies, proposals, conference presentations, and articles. Writing is a significant component of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 435. Teaching Creative Writing. 3 Hours.
Examines current theory and practice in teaching creative writing particularly in secondary schools and introductory college-level classes.
Prerequisites: EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 436. Workshop in Writing for Young People. 3 Hours.
Intermediate workshop in writing for young people through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C] or EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 437. Workshop in Writing for Young People. 3 Hours.
Intermediate workshop in writing for young people through critique of student writing.
Prerequisites: EH 307 [Min Grade: C] or EH 308 [Min Grade: C] or EH 309 [Min Grade: C] or EH 310 [Min Grade: C]

EH 441. Literary Theory and Criticism, the Ancients to the Nineteenth Century. 3 Hours.
Introduction to theories of art and literary production in the contexts of aesthetics and culture from Plato to the end of the nineteenth century.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 442. Literary Theory and Criticism, the Twentieth Century to the Present. 3 Hours.
Introduction to theories of art and literary production in the contexts of aesthetics and culture from Russian formalism to the present.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 443. Archetype and Myth. 3 Hours.
Recurring images, underlying patterns, and shapes-of-meaning in poetry, fiction, and fairy tales.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 444. Women's Literature and Theory. 3 Hours.
Literary works and theoretical perspectives of Angelou, Chopin, Hong, Kingston, Hurston, Walker, Woolf, Plath, and others.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 446. African American Autobiography. 3 Hours.
Personal narratives by African Americans, including texts by Wheatley, Douglass, Jacobs, Wilson, DuBois, Johnson, Hurston, Hughes, Wright, Baldwin, Angelou, and Moody.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 447. African American Dramatic Tradition. 3 Hours.
Development of African American dramatic tradition from the nineteenth century through the Harlem Renaissance and Black Arts movement to contemporary postmodernism, including Brown, Hurston, Baraka, and Wilson.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 448. African American Poetry Tradition. 3 Hours.
Development of African American poetry from its early works to the present, including Wheatley, Dunbar, Hughes, Brooks, and Angelou.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 450. Advanced Grammar. 3 Hours.
Present-day English grammar.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 451. Generative Grammar. 3 Hours.
Introduction to Chomskian linguistic theory. Knowing a language involves knowing an intricate set of rules; this course gives one approach to modeling this linguistic knowledge.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 452. Grammar and Usage for English Teachers. 3 Hours.
Overview of English grammar and usage, focusing on those topics that are presented in the classroom. Topics will include the difference between prescriptive and descriptive grammar, parts of speech, types of verbs, grammatical functions, agreements, sentence structure, tense, aspect, voice finite clauses, nonfinite clauses, clause types, Focus also on Reed-Kellogg sentence diagramming.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 453. History of the English Language. 3 Hours.
Overview of language evolution from Proto-Indo-European to modern English dialects, including phonological shifts, dialectal distinctions, language families and orthographical and syntactical changes.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 454. The Biology of Language. 3 Hours.
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 455. Digital Publishing. 3 Hours.
Introduces students to new technologies for digital communication and the ways in which these technologies influence how people read, write, interact with, and share information.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 456. Visual Rhetoric. 3 Hours.
Analysis of the rhetorical characteristics of texts that incorporate both images and words in order to persuade audiences. Writing is a significant component of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 457. African American Dramatic Tradition. 3 Hours.
Development of African American dramatic tradition from the nineteenth century through the Harlem Renaissance and Black Arts movement to contemporary postmodernism, including Brown, Hurston, Baraka, and Wilson.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 448. African American Poetry Tradition. 3 Hours.
Development of African American poetry from its early works to the present, including Wheatley, Dunbar, Hughes, Brooks, and Angelou.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 450. Advanced Grammar. 3 Hours.
Present-day English grammar.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 451. Generative Grammar. 3 Hours.
Introduction to Chomskian linguistic theory. Knowing a language involves knowing an intricate set of rules; this course gives one approach to modeling this linguistic knowledge.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 452. Grammar and Usage for English Teachers. 3 Hours.
Overview of English grammar and usage, focusing on those topics that are presented in the classroom. Topics will include the difference between prescriptive and descriptive grammar, parts of speech, types of verbs, grammatical functions, agreements, sentence structure, tense, aspect, voice finite clauses, nonfinite clauses, clause types, Focus also on Reed-Kellogg sentence diagramming.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 453. History of the English Language. 3 Hours.
Overview of language evolution from Proto-Indo-European to modern English dialects, including phonological shifts, dialectal distinctions, language families and orthographical and syntactical changes.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 454. The Biology of Language. 3 Hours.
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language.
Prerequisites: EH 350 [Min Grade: C] or EH 351 [Min Grade: C]

EH 455. Digital Publishing. 3 Hours.
Introduces students to new technologies for digital communication and the ways in which these technologies influence how people read, write, interact with, and share information.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 456. Visual Rhetoric. 3 Hours.
Analysis of the rhetorical characteristics of texts that incorporate both images and words in order to persuade audiences. Writing is a significant component of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]
EH 457. Writing and Medicine. 3 Hours.
This course examines how the realm of medical knowledge and practice is written or constructed according to particular social and ethical values. Overarching institutional assumptions and norms as well as specific texts and practices will be considered in our study of medical discourse. Writing, Ethics and Civic Responsibility are significant components of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 459. Discourse Analysis. 3 Hours.
Advanced practice in the analysis and writing of public discourse, with emphasis on the social politics of linguistic choices. Writing is a significant component of this course.
Prerequisites: EH 203 [Min Grade: C] or EH 205 [Min Grade: C] or EH 210 [Min Grade: C] or EH 214 [Min Grade: C] or EH 216 [Min Grade: C] or EH 217 [Min Grade: C] or EH 218 [Min Grade: C] or EH 221 [Min Grade: C] or EH 222 [Min Grade: C] or EH 223 [Min Grade: C] or EH 224 [Min Grade: C]

EH 460. American Women Writers Before 1900. 3 Hours.
Survey of American women's writing before 1900.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 461. American Literature, 1620 - 1820. 3 Hours.
Representative American writing from colonial period to Washington Irving.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 462. American Literature, 1820 - 1870. 3 Hours.
Representative writers such as Alcott, Cooper, Poe, Hawthorne, Melville, Emerson, Fuller, Fern, Harper, Thoreau, Jacobs, Whitman, Stowe, and Dickinson.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 463. American Literature, 1870 - 1914. 3 Hours.
Realism and naturalism: Twain, James, Howells, Crane, Jewett, Wharton, Dreiser, Norris, and Chopin, among others.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 464. American Literature, 1914 - 1945. 3 Hours.
Selected fiction, poetry, and drama of major American writers such as Eliot, Faulkner, Hemingway, Hurston, O'Neill, and Wright.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 465. American Literature, 1945-Present. 3 Hours.
Selected fiction, poetry, and drama in context of post-war cultural trends and literary movements.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 466. The Slave Narrative and Its Literary Expressions. 3 Hours.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 467. Black Women Writers. 3 Hours.
Evolution of Afrocentric feminist consciousness through early and contemporary writings including works by Aiddo, Conde, Cooper, Chase-Riboud, Marshall, Morrison and Naylor.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 468. The Harlem Renaissance. 3 Hours.
Black writers during Harlem Renaissance movement. Includes Johnson, Toomer, Murray, Larsen, McKay, Thurman, Reed, and Morrison.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 469. Medieval Culture: Literature and Society. 3 Hours.
Exploration through art, literature, and history of dominant themes of Middle Ages, from Germans to Dante and Chaucer.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 470. Arthurian Legend. 3 Hours.
King Arthur and his knights in literature from sixth-century history and formulation of legend in Middle Ages to its use in twentieth century.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 471. Beowulf in Context. 3 Hours.
Beowulf and various texts that bear upon it (including modern literary and film adaptations), as well as a close study of the Norse analogues of the Old English epic. All texts in Modern English translation. Not appropriate for those who have taken EH 649.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 472. Introduction to Old English. 3 Hours.
An introduction to the language and literature of early medieval England (pre-1100), culminating in analyses of The Dream of the Rood and The Battle of Maldon in the original alliterative verse.

EH 473. Chaucer: Pilgrimage to Canterbury. 3 Hours.
Selections from Canterbury Tales and Chaucer's fourteenth-century milieu.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 474. English Renaissance Drama (Excluding Shakespeare). 3 Hours.
Plays by Marlowe, Kyd, Jonson, Touneur, Webster, Middleton, and Ford.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 475. English Renaissance Poetry and Prose. 3 Hours.
Topics vary. Broad survey of period or close analysis of genre, theme, or author.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 476. Shakespeare. 3 Hours.
Study of several major plays.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 478. Milton. 3 Hours.
Selected prose and poetry, including Paradise Lost.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 480. The Restoration. 3 Hours.
Interdisciplinary exploration of selected poems, plays, and essays by Restoration authors. Authors and topics vary.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 481. The Eighteenth Century: Literature and Culture. 3 Hours.
Interdisciplinary exploration of texts that focuses on social, economic, and political backgrounds. Topics and authors vary.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 482. The Eighteenth Century: Theory and Interpretation. 3 Hours.
Interdisciplinary exploration of selected texts by 18th-century authors that focuses on their formal and philosophical contexts. Authors and topics vary.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)

EH 483. British Romanticism. 3 Hours.
Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb, and DeQuincy.
Prerequisites: EH 301 [Min Grade: C](Can be taken Concurrently)
EHS 494. English Honors Research. 3 Hours.
This is an individual studies course for outstanding students beginning their work on an honors capstone thesis. During the first course of a two-course sequence, students will conduct research for that thesis and write a full-length prospectus for that thesis with an extended bibliography.
Prerequisites: EH 301 [Min Grade: C] (Can be taken Concurrently)

EH 495. Honors Capstone Thesis. 3 Hours.
This is an individual studies course for outstanding students completing their work on an honors capstone thesis. During this second course of a two-course sequence, students will write and defend that thesis.
Prerequisites: EH 301 [Min Grade: C]

EH 496. Capstone Seminar. 3 Hours.
Specific topics vary. This seminar will provide an opportunity for students to reflect upon and to use the knowledge, skills, and dispositions developed in previous English coursework. Required of all English majors. EH 496 is ideally taken in the final undergraduate semester.
Prerequisites: EH 301 [Min Grade: C]

EH 497. Individual Studies. 1-3 Hours.
Student and faculty member work together to define project; student conducts research and presents results as written report.

Courses

EHS 125. Inquiry Approaches to Teaching. 1 Hour.
In this Step 1 allows students to explore teaching as a career at no cost. Following an introduction to the theory and practice behind excellent inquiry-based science and mathematics instruction, candidates teach lessons in elementary classrooms to obtain firsthand experience in planning and implementation. Master teachers: Step 1 instructors chosen for their experience and success in secondary classrooms: provide candidates direct exposure to people who love teaching and view it as a rewarding career choice. Mentor teachers at the low-socioeconomic schools where candidates teach their prepared lessons demonstrate effective teaching techniques and classroom management skills, giving the future teachers a true taste of working in a supportive, diverse educational setting. The purpose of Step 1 is to have students explore the possibility of teaching in science, mathematics, or computer science. Students teach science or mathematics lessons in local, high-need elementary classrooms and obtain first-hand experience with planning and implementing inquiry-based curriculum. The course instructor introduces students to the theory and practice behind excellent inquiry-based science and mathematics instruction, guides them through the process of designing and preparing to teach lessons, and assesses their progress toward course objectives.

EHS 126. Step 2: Inquiry Based Lesson Designs. 1 Hour.
In Step 2 students continue developing the lesson planning skills learned in EHS 125: Step 1 as they become familiar with exemplary middle school science curricula. After observing a lesson being taught in a local school district classroom, students work alone or in pairs to themselves plan and teach three inquiry-based lessons to sixth, seventh, or eighth graders. Middle school science or mathematics classrooms are selected both for the diversity of the student body and the quality of the classroom teachers, who serve as mentors for the Step 2 students assigned to them. By the end of Step 2, students are usually able to make a decision about whether to pursue teacher certification through the UTeach program. In addition to the unique Core Components and Course Objectives listed below, all UTeach courses are designed in accordance with the UTeach Course Design Principles.
Prerequisites: EHS 125 [Min Grade: C]

EHS 320. Geography for Teachers. 3 Hours.
Unifying themes and concepts of geography. Culture and characteristics of places, especially as caused by relationships between humans and their environment.

EHS 325. Knowing and Learning in Mathematics and Science. 3 Hours.
Knowing and Learning in Mathematics and Science is the first in a sequence of three, 3-credit teaching methods courses in the UTeach program. It is followed by Classroom Interactions and Project-Based Instruction. Knowing and Learning is more than simply a general survey of theories in the STEM fields, its goal being for students to construct a model of knowing and learning that will guide their future classroom practice. This course revolves around an exploration of Essential Questions (see below) specifically relevant to teaching mathematics and science. Students begin by considering what standards for knowing are to be used, how knowing and learning are structured, and how what is known changes and develops. Ultimately, students must think about the tensions between general, cross-disciplinary characterizations of knowing (e.g., intelligence) and the specifics of coming to understand powerful ideas in mathematics and science.
Prerequisites: EHS 125 [Min Grade: C] and EHS 126 [Min Grade: C] (Can be taken Concurrently)
EHS 326. Classroom Interactions. 3 Hours.
Classroom Interactions is typically the fourth UTeach course taken by students and the second in a series of three, 3-credit teaching methods courses. It follows Knowing and Learning and precedes Project-Based Instruction. Classroom Interactions builds on the Knowing and Learning course, moving from a focus on thinking and learning to a focus on teaching and learning. The course is centered around a close examination of the interplay between teachers, students, and content, and how these types of interactions enable students to develop deep conceptual understanding. Prospective teachers are also introduced to ways in which curriculum and technology are used in classroom settings to build interrelationships among teachers and students. They are taught how content and pedagogy combine to make effective teaching. The Classroom Interactions course continues the process of preparing students to teach mathematics and science in upper elementary and secondary settings. The goals for this course are to:
- Provide students with opportunities to see how theories explored in Knowing and Learning play out in instructional settings by designing and implementing instructional activities informed by their own understanding of what it means to know and learn mathematics and science, and then evaluating the outcomes of those activities on the basis of student artifacts (i.e., what students say, do, or create).
- Provide students with frameworks for thinking about equity issues in the classroom and larger school settings, make students aware of equity issues in classroom settings and their effects on learning, and provide students with strategies for teaching diverse students equitably.
Prerequisites: EHS 125 [Min Grade: C] and EHS 126 [Min Grade: C] and EHS 325 [Min Grade: C]

EHS 327. Project-Based Instruction. 3 Hours.
Project-Based Instruction (PBI) is the capstone course in the sequence of teaching methods courses (Knowing and Learning, Classroom Interactions, and PBI) UTeach students take prior to Apprentice Teaching. PBI is the course in which a number of the major principles and themes of the UTeach program—integration of mathematics and science content; infusion of technology in representation, analysis, modeling, assessment and contextualization of content; immersion in intensive field-based experiences; and a focus on designing equitable learning environments for diverse students—are synthesized as the students develop an intellectually challenging project-based instructional unit. When students complete PBI, they are fully prepared for Apprentice Teaching.
Prerequisites: EHS 125 [Min Grade: C] and EHS 126 [Min Grade: C] and EHS 325 [Min Grade: C] and EHS 326 [Min Grade: C]

EHS 401. Secondary Education Curriculum and Methods. 3 Hours.
Interaction with middle and high school teachers and students and representatives from support agencies in their respective environments. Extensive field experience required.

EHS 402. Practicum I. 1 Hour.
Reading strategies for 6-12 instruction provide foundation for constructing lesson plans in EHS 401.

EHS 425. Apprentice Teaching. 6 Hours.
The purpose of Apprentice Teaching is to offer UTeach students a culminating experience that provides them with the tools needed for their first teaching jobs. In Apprentice Teaching, students are immersed in the expectations, processes, and rewards of teaching. When making placements, UTeach master teachers consider each apprentice teacher's characteristics and abilities as well as the cooperating teacher's teaching and mentoring styles.

EHS 426. Apprentice Teaching Seminar. 1 Hour.
The purpose of Apprentice Teaching is to offer UTeach students a culminating experience that provides them with the tools needed for their first teaching jobs. In Apprentice Teaching, students are immersed in the expectations, processes, and rewards of teaching. Apprentice teachers sign up for two courses: the one-hour Seminar and the six-hour Apprentice Teaching course. Master teachers teach the seminar, share their teaching experiences and facilitate discussions, helping the apprentice teachers develop their own successful teaching identities. The Apprentice Teaching seminar provides a supportive environment where apprentice teachers share their experiences and work on solutions to difficulties they are experiencing. The seminar is a good forum for students to get the guidance they consistently want on classroom management.

EHS 430. Practicum. 1 Hour.
Field experience in school-based setting. Admission to Alternative Master's Program required.

EHS 436. Methods I: English Language Arts. 6-12. 3 Hours.
Introduction to teaching English language arts in secondary school settings. Developing basic skills in planning, instruction, and assessment. Admission to TEP required.

EHS 438. Methods I: Social Science. 6-12. 3 Hours.
Introduction to teaching the social sciences in secondary school settings. Developing basic skills in planning, instruction, and assessment. Admission to TEP required.

EHS 456. Classroom Management in Secondary Schools. 3 Hours.
Management and instructional problems in secondary schools; techniques for improving study skills and developing better instructional planning.

EHS 458. Science Technology and Society: A Primer for Educators. 3 Hours.
Nature of momentous changes: origin, current status, and future direction. Role of educational community in helping young people better understand and deal with various issues raised.

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EHS 466. Language Arts Methods. 3-4 Hours.
Curriculum and instruction in English/language arts. Extensive field experience required.

EHS 466. Language Arts Methods. 3-4 Hours.
Curriculum and instruction in English/language arts. Extensive field experience required.

EHS 467. Secondary Science Methods. 3-4 Hours.
Teaching methods and curricula in secondary science programs. Extensive field experience required.

EHS 468. Secondary Social Science Methods. 3-4 Hours.
Curriculum and instruction in social studies. Extensive field experience required.

EHS 469. Secondary School Curriculum: Foreign Language. 3-4 Hours.
Approaches and methods of teaching and testing foreign language. Selection and use of audiovisual equipment and materials. Extensive field experience required.

Prerequisites: EHS 401 [Min Grade: C] and EHS 402 [Min Grade: C]
Coherent view of effective teaching and instructional design in middle and high schools. Extensive guided teaching experiences. Students implement full range of instructional process: planning, delivery, and evaluation.

EHS 471. Special Education Accommodation / Modification Lab. 1 Hour.
Knowledge and skills for helping students with special needs to successfully progress in the general education curriculum. Managing verbal and physical aggression, collaborative teaching, and strategies for adapting the general education curriculum for students with special needs.

EHS 489. Internship Seminar in Secondary Education. 1,3 Hour.
Supports and extends efforts of student teaching. Problem solving related to classroom situations such as classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship.

EHS 490. Secondary School Student Teaching I. 3-9 Hours.
Capstone experience involving observation and teaching in secondary schools.

EHS 491. Secondary School Student Teaching II. 3-6 Hours.
Supervised teaching in high school.

EHS 497. Special Problems in Education. 1-3 Hour.
Topics of current interest. May be repeated for total of 6 hours.

EHS 499. Field Studies: Select Education Setting. 1-3 Hour.
Field visits to locations of high educational impact.

ELI-English Language Institute Courses

Courses

ELI 009. ELCI 6-week Session. 24 Hours.
This course registers students as full-time or part-time students in Banner in special summer 6-week programs.

ELI 010. ELI Session. 10,20 Hours.
This course registers students as full-time or part-time students in Banner.

ELI 011. Reading Level I. 0 Hours.
Students will learn reading skills to get meaning from simple non-fiction, non-academic texts in English. Students will learn general vocabulary. Objectives: Students will read at least 14 non-fiction non-academic texts of up to 200 words in English. The texts are written for use with Level 1 students. Students will learn and practice basic reading skills and strategies, text analysis, and vocabulary skills. Students will learn the form, meaning, and pronunciation of vocabulary in the readings.

ELI 012. Integrated Skills I. 0 Hours.
Grammar, vocabulary, speaking, and listening will be learned and practiced together. Students will learn form, meaning, and pronunciation of simple present, simple past, present continuous, and going to; nouns, adjectives and adverbs. They will practice this language in spoken and written activities. Students will learn and practice form, meaning, and pronunciation of basic vocabulary. They will learn basic speaking skills through practice of grammar and vocabulary in communicative activities. Students will develop basic listening skills to get meaning from classroom and recorded speech that uses the grammar and vocabulary.

ELI 013. Vocabulary Building. 1 Hour.
Students will learn basic vocabulary that is useful in daily life, in topic groups including time & calendar, daily activities, family, weather, clothes, food, furniture, and places in town. Students will learn the meaning, pronunciation, and form (spelling, part of speech, plurals and non-count, collocations, and phrasal verbs) of words.

ELI 014. Writing Level I. 0 Hours.
Students will complete at least 10 paragraphs of up to 100 words. Paragraphs will eventually include topic and supporting sentences. Students will follow the process of generating content, analyzing models, organizing content, and writing drafts with teacher, peer, and self-editing. Students will learn and practice Level 1 mechanics, grammar, sentence structure, and functional language for content area.

ELI 015. Support for Beginners. 0 Hours.
This course is designed to support Level Pre-1 students in their outcomes for ELC 013 Vocabulary Building 1 and ELC 012 Integrated Skills 1.

ELI 021. Reading Level 2. 0 Hours.
Goals: Students will develop reading skills to get meaning from non-fiction non-academic and simplified academic texts in English. Students will learn general vocabulary. Students will read at least 12 non-fiction non-academic and simplified academic texts of up to 400 words in English. Texts are graded for use with Level 2 students. Students will learn and practice general reading skills and strategies, text analysis, and vocabulary skills. Students will learn the form, meaning, and pronunciation of vocabulary in the readings.

ELI 022. Integrated Skills: Grammar, Listening and Speaking Level II. 0 Hours.
Grammar, vocabulary, speaking, and listening will be learned and practiced together. Students will improve their use simple present, simple past, present continuous, and going to; and learn present perfect, present continuous for future, comparatives and superlatives, modals, quantifiers, and basic infinitives and gerunds. They will practice language in spoken and written activities. Students will learn and practice form, meaning, and pronunciation of general vocabulary. They will develop their speaking fluency through communicative activities, and their listening skills to get meaning from classroom and recorded speech. Students will also develop their writing skills through communicative activities.

ELI 023. Vocabulary Building Level 2. 0 Hours.
Students will learn vocabulary that is useful in daily life, in topic groups including personality, emotions, health, emergencies, errands, workplace, geography, hobbies & sports, and transportation. Students will learn the meaning, pronunciation, and form (spelling, part of speech, plurals and non-count, collocations, and phrasal verbs) of words.

ELI 024. Writing Level II. 0 Hours.
Students will complete at least 4 academic paragraphs of up to 120 words. Paragraphs will include topic, supporting, and concluding sentences. Students will follow the process of generating content, analyzing models, outlining, and writing 2 drafts with teacher, peer, & self-editing. Students will learn and practice mechanics, grammar, sentence structure, and functional language for paragraph genre.

ELI 031. Academic Reading Level III. 0 Hours.
Students will read at least 12 non-fiction academic texts of 600-1000 words in English. Texts are those graded for use with Level 3 students, and authentic articles and excerpts. Students will learn and practice basic academic reading skills and strategies, text analysis, and vocabulary skills. Students will learn the form, meaning, and pronunciation of vocabulary in the readings.
ELI 032. Speaking and Listening Skills Level III. 0 Hours.
Students will develop their speaking skills to communicate in groups, and give short presentations on general and simplified academic topics. Students will develop their listening skills to get meaning and take notes on graded & authentic conversations and academic lectures. Students will learn basic academic vocabulary on listening and speaking topics. Speaking and listening skills and vocabulary will be studied together with 4 popular and academic topics. Students will develop their communicative speaking skills in topic-based interactive activities. They will give at least 4 short presentations with attention to non-verbal communication. They will receive feedback on their pronunciation and grammar use. Students will listen to at least 4 graded and authentic recorded conversations and academic lectures. They will learn basic lecture note-taking skills with guided outlines. Students will learn form, meaning, & pronunciation of topic vocabulary.

ELI 033. Grammar: Using English Accurately Level III. 0 Hours.
Students will develop their ability to accurately use verb tenses, and relative clauses. Students will apply this grammar in speaking and expository writing. Students will learn form, meaning, and pronunciation of all English verb tenses in contrast. They will learn restrictive and non-restrictive subject and object relative clauses. Students will practice this language in written and spoken controlled exercises, and apply it in freer written and spoken activities.

ELI 034. Academic Writing III. 0 Hours.
Students will learn to write short academic essays. Students will complete 4 academic essays of at least 250 words in these genres: descriptive, comparison, opinion, and narrative. Essays will include introduction, body (1-2), and conclusion paragraphs. Students will follow the process of generating content, analyzing models, outlining, and writing 2 drafts with teacher, peer, and self-editing. Students will learn and practice Level 3 language, including adverb and adjective clauses, and functional language for essay genre.

ELI 041. Academic Reading Level IV. 0 Hours.
Students will develop reading skills to get meaning from non-fiction academic texts and fiction in English. Students will learn academic vocabulary. Students will read at least 12 texts, including non-fiction academic texts and fiction of 800-1200 words in English. Texts are authentic articles and excerpts. Students will develop their academic reading skills and strategies, text analysis, and vocabulary skills. Students will learn the form, meaning, and pronunciation of vocabulary in the readings.

ELI 042. Speaking Listening Skills Level IV. 0 Hours.
Students will develop their speaking skills to communicate spontaneously in groups, and give presentations on academic topics. Students will develop their listening skills to get meaning from and take notes on authentic conversations and academic lectures. Students will learn academic vocabulary contextualized in the listening and speaking topics. Speaking and listening skills and vocabulary will be integrated into 4 academic topics. Students will develop their communicative speaking skills in interactive activities. They will prepare and give at least 4 presentations, with attention to organization and basic visual aids. They will receive feedback on their grammar use and pronunciation. Students will listen to at least 4 authentic recorded conversations and academic lectures, and develop their lecture note-taking skills with guided outlines. Students will learn the form, meaning, and pronunciation of topic vocabulary.

ELI 043. Grammar: Using English Accurately Level IV. 0 Hours.
Students will learn and develop their ability to accurately use modals, gerunds and infinitives, articles and nouns, passives, and conditionals. Students will apply this grammar in speaking and expository writing. Students will learn form, meaning, and pronunciation of modals including past, gerunds and infinitives, nouns and article use, passives in all tenses, and conditionals. Students will practice this language in written and spoken controlled exercises, and apply it in freer written and spoken activities.

ELI 044. Academic Writing IV. 0 Hours.
Students will learn to write longer and more developed academic essays. Objectives: Students will complete 3 academic essays of at least 450 words in these genres: classification, cause/effect, and argument. Essays will include introduction, 3 or more body paragraphs, and conclusion paragraph. Students will follow the process of generating content, analyzing models, outlining, and writing 3 drafts with teacher, peer, and self-editing. Students will learn and practice Level 4 language, including adverb and adjective clauses, and functional language for essay genre.

ELI 045. TOEFL Preparation. 0 Hours.
Goals: Students will become familiar with TOEFL internet-based test tasks and question types. They will apply the test-taking strategies and skills needed in the reading, listening, writing, and speaking parts of the exam. Objectives: Students will learn and practice the test-taking strategies and skills needed in the reading, listening, writing, and speaking parts of the exam.

ELI 051. Academic Reading Level V. 0 Hours.
Goals: Students will expand their reading skills to get meaning from non-fiction academic texts in English. Students will learn academic vocabulary. Objectives: Students will read at least 12 non-fiction academic texts of up to 800-2000 words in English. Texts are authentic articles or excerpts. Students will expand their academic reading skills and strategies, text analysis, and vocabulary skills. Students will learn the form, meaning, and pronunciation of vocabulary in the readings.

ELI 052. Oral Communication Level V. 0 Hours.
Goals: Students will expand their speaking skills to communicate spontaneously on academic topics in small groups, and give professional presentations on academic topics. Students will expand their listening skills to extract meaning from and take notes on authentic academic conversations and lectures. Students will learn academic vocabulary contextualized in the listening and speaking topics. Objectives: Speaking and listening skills and vocabulary will be integrated into 4 academic topics. Students will expand their communicative speaking skills in interactive activities with academic topics and tasks. They will prepare and give at least 4 presentations, with focus on organization and visual aids. They will receive feedback on their grammar and pronunciation. Students will listen to at least 4 authentic recorded conversations and 4 academic lectures, and generate their own lecture note-taking outlines. Students will learn the form, meaning, and pronunciation of contextualized vocabulary.
ELI 053. Using English Accurately Level V. 0 Hours.
Goals: Students will expand their ability to use grammar common to academic contexts such as cause & effect, compare & contrast, narrative, problem & solution, and persuasion. They will apply new and revised grammar in speaking and expository writing in these contexts. Objectives: Students will learn new grammar, and expand on known grammar commonly used in specific academic contexts. They will focus on form, meaning, and pronunciation of various tenses, sentence structures, and functional language used to speak and write academically. Students will practice this language in spoken and written controlled exercises, and apply it in speaking in groups and presentations, and writing in academic contexts.

ELI 054. Academic Writing Level V. 0 Hours.
Goals: Students will develop skills to write academic research papers. Students will develop their citing, quoting, paraphrasing, and summarizing skills, and learn APA format for external sources. They will learn to integrate source information into their essays. Objectives: Students will write 2 research papers of 500-750 words. For an expository essay, students will develop evaluative criteria, conduct on-line research, generate content, outline, and write 2 drafts with teacher, peer, and self-editing. For a reporting essay, students will read published sources on a medical problem, write a rough and detailed outline, and 2 drafts with teacher, peer, and self-editing. Students will expand their ability to quote, paraphrase, and summarize, and learn APA citation format. Students will expand their reading ability and use complex sentence structures.

ELI 055. IELTS® Preparation. 1 Hour.
Students will become familiar with IELTS test tasks and question types. They will apply the test-taking strategies and skills needed in the listening, reading, writing, and speaking parts of the exam. Students will also build their vocabulary. Students will learn and practice the test-taking strategies and skills needed in the listening, reading, writing, and speaking parts of the exam, including the following. They will learn & practice new vocabulary found in texts.

ELI 061. Special Programs in Speaking and Listening. 0 Hours.
Students practice extensive speaking, including pronunciation instruction and feedback, teaching on conversation strategies, and discussions about culturally relevant topics. Students also practice listening skills in this interactive environment through podcasts, videos, and other media with a particular emphasis on note taking skills. Vocabulary building is incorporated into this class and emphasizes American expressions and current idioms, which enables students to understand informal English with greater fluency. In addition, class discussions usher in a deeper analysis of American culture.

ELI 062. Special Programs Using Grammar in Conversation. 0 Hours.
Grammar in practice means using English accurately, not simply knowing English grammar rules for a test. The Grammar in Conversation class emphasizes accuracy and fluency. Students review some of the most common grammatical errors in spoken English, including those that frequently impede comprehensibility, and then practice producing the forms accurately in fluent speech. In this way, this class supports previous grammar study but also capitalizes on the possibilities for fluency practice that a short-term immersion program provides.

ELI 063. Special Programs Reading and Writing. 0 Hours.
Grammar in practice means using English accurately, not simply knowing English grammar rules for a test. The Grammar in Conversation class emphasizes accuracy and fluency. Students review some of the most common grammatical errors in spoken English, including those that frequently impede comprehensibility, and then practice producing the forms accurately in fluent speech. In this way, this class supports previous grammar study but also capitalizes on the possibilities for fluency practice that a short-term immersion program provides.

ELI 071. Pronunciation/Accent Training I. 0 Hours.
This course focuses on improving your American English pronunciation and accent. The desired outcome of this course is that your speech will be more easily understood by speakers of English.

ELI 072. Pronunciation/Accent Training II. 0 Hours.
This course focuses on continuing to improve your American English pronunciation and accent through practicing previously studied skills in active conversation. The primary desired outcome of this course is that your accent will be more easily understood by speakers of English. The secondary outcome is that you will be more comfortable and fluent when speaking in English.

ELI 075. Business Listening and Speaking. 0 Hours.
This course is designed to improve students' business English skills. In particular, listening and speaking skills will be the focus of this course. Business professionals or persons presently working in the U.S. will benefit from the speaking and listening skills learned in this class. The class will also feature business-related vocabulary, idioms, and culture discussions.

ELI 076. Business Writing Skills. 3 Hours.
The following are objectives for this course: Improve understanding of the different types of business writing and appropriate use of each type (business letters, emails, memos, reports, cover letters, resumes, proposals); enhance familiarity with common business letter formats, the various parts of a business letter and the purpose of each part; create business English writing that is clear, concise and specific; learn techniques of self-editing; improve the following grammar skills: use of articles, prepositions, gerunds and infinitives, contractions, comma usage, punctuation, recognition of sentence fragments, and appropriate use of adjectives and adverbs; and improve the following language usage skills: formal vs. informal language, linking fragments, numbers in writing, and accuracy of vocabulary.

ELI 078. GRE Preparation. 0 Hours.
This advanced-level course, designed for non-native English speakers, will focus on the verbal English skills that are needed for success on the test: practice writing analytical essays, acquire strategies for mastering analogies, learn techniques to build vocabulary, review key grammar points, improve reading comprehension, and practice taking the GRE® in a computer lab.

ELI 09. ELCI 6-week Session. 24 Hours.
This course registers students as full-time or part-time students in Banner in special summer 6-week programs.

ELI 091. Common Hour. 0 Hours.
This course is designed to provide additional support to students in the Intensive English Program. This course serves as an extended orientation that will help students integrate into campus life and navigate through cultural adjustment while learning about the USA/State/Local/UAH cultures and procedures. The class is not a language learning class. The focus of the class is on knowledge. Translation help will be provided as needed.
ELI 092. Language Partners for Levels 1 and 2. 0 Hours.
This course is designed to provide additional English practice to students in the Intensive English Program. This course provides native English speaking volunteers from UAB and the community to practice in a one-on-one situation. For full-time students in the Academic English Program who are in levels 1 and 2, this is a required course. Conversational topics are chosen each week and sample questions are provided to help get conversation going. The goal is to help develop and/or enhance fluency in English.

ELI 101. Academic Writing for Non-Native English Speakers I. 3 Hours.
This course focuses on the development of various types of writing required in university courses. Becoming fluent in the organizational structure of writing in the American academic setting will be emphasized. In addition, grammar and mechanics are reviewed. Students will practice all aspects of the writing process: generating ideas, drafting, revising, and editing.

ELI 102. Academic Reading for Non-Native English Speakers II. 3 Hours.
This course expands academic reading skills and strategies, text analysis, and vocabulary skills for application in an academic environment. In addition, students will build academic vocabulary range through analyzing vocabulary contextualized in the readings. Students will expand their reading skills to extract meaning from non-fiction academic texts in English, which will feature authentic articles or excerpts.

ELI 203. Academic Listening and Speaking for Non-Native English Speakers I. 3 Hours.
This course emphasizes the development and practice of speaking and listening skills necessary for successful communication in the university environment. Specifically, this course focuses on effective strategies for listening to lectures, participating in classroom discourse, and giving presentations. In addition, students will engage in oral fluency practice and pronunciation improvement.

ELI 205. Using English Skills for Academic Success. 3 Hours.
This course will build on previous courses and will provide a venue for structured practice with all academic English language skills, including reading, writing, speaking, and listening, in an integrated format for second-semester, INTO UAB undergraduate standard pathway students. Students will employ a variety of English skills in ways that will mimic what is expected in an actual undergraduate classroom format. The course will feature much feedback from the instructor to facilitate improvement; content will take into account the other courses in the pathway to maximize learning.

ELI 206. Accelerated English Skills for Academic Success. 3 Hours.
This course will provide a venue for structured practice with all academic English language skills, including reading, writing, speaking, and listening, in an integrated format for INTO UAB accelerated pathway students. Students will employ a variety of English skills in ways that will mimic what is expected in an actual undergraduate classroom format, with the intention of accelerating transfer of English language skills to the American academic environment. The course will feature much feedback from the instructor to facilitate improvement.

ELI 401. Academic Reading & Writing for the Graduate Student 1. 3 Hours.
This two-semester, multi-skill course, designed for non-native English speaking graduate students needing English language skill improvement, will focus on reading and writing skill development, with additional outcomes in improved grammar usage and vocabulary expansion. The course will emphasize academic reading skills and strategies and text analysis, using non-fiction academic texts in English, and it will also build academic vocabulary range through analyzing vocabulary contextualized in the readings. Then, students will use readings to practice various types of writing. Becoming fluent in the organizational structure of writing in the American academic setting will be emphasized, and grammar instruction will be addressed as needed. Students will practice all aspects of the writing process: generating ideas, drafting, revising, and editing.

ELI 402. Academic Speaking & Listening for the Graduate Student 1. 3 Hours.
This two-semester, multi-skill course, designed for non-native English speaking graduate students needing English language skill improvement, will focus on the development and practice of speaking and listening skills necessary for successful communication in the university environment, with additional outcomes related to pronunciation training. Specifically, this course focuses on effective strategies for listening to lectures, participating in classroom and general academic discourse, and giving presentations. In addition, the course provides a focus on pronunciation and opportunities for oral fluency practice.

ELI 403. Academic Reading & Writing for the Graduate Student 2. 3 Hours.
The second part of a two-semester, multi-skill course for non-native English speaking graduate students needing English language skill improvement, this course will continue building skills in reading, writing, grammar, and vocabulary for use in graduate coursework. Reading passages from authentic texts, as well as summarizing and paraphrasing passages from texts, will be included.

ELI 404. Academic Speaking & Listening for the Graduate Student 2. 3 Hours.
The second part of a two-semester, multi-skill course for non-native English speaking graduate students needing English language skill improvement, this course will build on the previous course in focusing on the development and practice of speaking and listening skills necessary for success in a graduate academic environment. The course will provide a venue for structured practice with these English language skills in an integrated format, as students mimic in class what transpires in the graduate classroom. The course will feature much feedback from the instructor to facilitate improvement, as well as an emphasis on pronunciation practice.

ELI 405. Academic English Skills for the Graduate Student. 3 Hours.
This course will provide a venue for structured practice with all academic English language skills, including reading, writing, speaking, and listening, in an integrated format for INTO UAB accelerated graduate pathway students. Students will employ a variety of English skills in ways that will mimic what is expected in an actual graduate classroom format, with the intention of accelerating transfer of English language skills to the American academic environment. The course will feature much feedback from the instructor to facilitate improvement.

EMS-Middle School Education Courses
Courses

EMU 330. Introduction to Middle/Junior High Teaching. 3 Hours.
Survey of curriculum, methods and techniques of teaching, materials for instruction, and evaluation of instruction. Extensive field experience required.

EMU 335. Mat/Methods Teaching Middle School. 3 Hours.
Development of skills and techniques for teaching 10-14 year olds. Two-thirds of course dedicated to generic skills and techniques needed to teach all children in age group and one-third to specific skills discipline for which student is seeking certification. Teacher as decision maker. Extensive field experience required.

EMU 343. Implic Growth/Development in Middle School. 3 Hours.
Developmental stages of students ages 10-14 with emphasis on developing curricula and teaching strategies compatible with these growth stages. Extensive field experiences required.

EMS 351. Teaching Language Arts in Middle/Junior High School. 3 Hours.
Methods of teaching middle grades language arts. Extensive field experiences required.
Prerequisites: EMS 343 [Min Grade: C]

EMS 352. Teaching Mathematics in Middle/Junior High School. 3 Hours.
Methods of teaching middle grades mathematics. Extensive field experiences required. Admission to TEP required.
Prerequisites: EMS 343 [Min Grade: C]

EMS 353. Teaching Science in Middle/Junior High School. 3 Hours.
Methods of teaching middle grades science. Extensive field experience required.
Prerequisites: EMS 343 [Min Grade: C]

EMS 354. Teaching Social Studies in Middle/Junior High Sch. 3 Hours.
Methods of teaching social science. Extensive field experiences required.
Prerequisites: EMS 343 [Min Grade: C]

EMS 355. Laboratory/Practicum in Middle School Education. 1 Hour.

EMS 451. Workshop in the Middle School. 1-3 Hour.

EMS 490. Student Teaching Middle/Junior High School I. 3-9 Hours.
Teaching in middle/junior high school.
Prerequisites: EMS 330 [Min Grade: C] and EMS 343 [Min Grade: C] and EDR 440 [Min Grade: C] and EDR 442 [Min Grade: C] and EDT 300 [Min Grade: C]

EMS 491. Student Teaching in Middle/Jr High School II. 3,6 Hours.
Supervised teaching in middle/junior high school.

EMU-Music Education Courses

Courses

EMU 402. Methods of Teaching Music N-6. 3 Hours.
Organization of appropriate music concepts and musical experiences for all elementary children; development of methods and skills needed for direct student involvement in musical experiences for each grade level.

EMU 403. Methods of Teaching Music N-6 Lab. 1 Hour.
Public school observation experiences for music education students enrolled in EMU 402.

EMU 404. Methods of Teaching Music in Secondary Education. 3 Hours.
Aims, principles, and philosophies of music; various methods of teaching in secondary schools for both non-performance music classes and instrumental and vocal activities. Laboratory includes direct method application in secondary music classrooms.

EMU 405. Methods of Teaching Music in Secondary Education Lab. 1 Hour.
Public school observation experiences for music education students enrolled in EMU 404.

EMU 490. Internship in Music Education. 9 Hours.
Supervised capstone teaching experience in grades N-12 as appropriate to student's teaching field (general music, instrumental music, or vocal/choral music).
Prerequisites: EPR 410 [Min Grade: C] and EMU 402 [Min Grade: C] and EMU 404 [Min Grade: C]

EMU 499. Internship Seminar in Music Education N - 12. 1 Hour.
Capstone course for the B.A. in Music Education. Students will demonstrate the skills expected of a professional music educator. This course is a supervised teaching course where the student is expected solve problems in all issues related to classroom management, assessment, and music making. Included in the assessment will be the creation of professional documents, appropriate budgets, and supervised teaching experiences. Prerequisites: Completion of methods courses with no grade below C. Corequisite: EMU 490. 1 hour.

ENV-Environmental Science Courses

Courses

ENV 108. Human Population and the Earth's Environment. 3 Hours.
Influence of human population on Earth's environment. Specific attention will be paid to environmental issues such as population growth, climate change, water and energy resources, pollution, waste disposal, plant and animal extinctions, and food resources. Strong emphasis will be placed on determining solution to the variety of environmental problems facing the earth. Lecture and film. Ethics and Civic Responsibility are significant components of this course. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

ENV 109. Laboratory in Environmental Science. 1 Hour.
Experiments on topics essential to study of environment and which reveal complexity of solving environmental problems. Writing, Ethics and Civic Responsibility are significant components of this course. Corequisite: ENV 108 [Min Grade: D](Can be taken Concurrently) or BY 108 [Min Grade: D](Can be taken Concurrently)

EPI-Epidemiology Courses

Courses

EPI 222. Public Health Issues in Physical Activity and Obesity. 3 Hours.
The purpose of this course is to provide an overview of the components of health and fitness within the context of the epidemiological evidence establishing the links between various types of health behaviors and risk factors (e.g., physical activity, body composition, diet, sleep, etc.) and health outcomes.
EPR-Educational Psychology Courses

Courses

EPR 214. Introduction to Educational Statistics. 3 Hours.
This introductory statistics course will cover basic descriptive and inferential statistics to include the following: Measures of central tendency; measures of variability; frequency distributions; normal curve of distribution; sampling; hypothesis testing, analysis of variance correlation, regression, and introduction to chi-square.

EPR 410. Measurement and Evaluation in Education. 3 Hours.
For early childhood/elementary education majors only. Basic concepts and principles of measurement and evaluation of personal and academic progress in classroom. Formative and summative assessment; Response to Instruction; and PLAN2020. Elementary descriptive statistics and measurement techniques used in student evaluation. Quantitative literacy is a significant component of this course.
Prerequisites: EEC 301 [Min Grade: C]

EPR 411. Measurement and Evaluation in Education. 3 Hours.
For secondary education majors only. Principles of student assessment. Basic concepts and principles of measurement and evaluation of personal and academic progress in classroom; Formative and summative assessment; Response to Instruction; and PLAN2020. Elementary descriptive statistics and measurement techniques used in student evaluation. Quantitative Literacy is a significant component of this course. Admission to TEP required.
Prerequisites: EHS 401 [Min Grade: C]

EPR 414. Lifespan Human Development. 3 Hours.
Physical, cognitive, social and moral development across lifespan, including death and dying from a variety of theories are covered.
Prerequisites: PY 101 [Min Grade: C]

EPR 460. Leadership in Non-Profit Administration. 3 Hours.
This course will provide practical and theoretical perspectives that are integrated in this course which will help leaders and students in human services consider the complexities of moral and ethical questions. The course focuses on theoretical and practical applications of building ethical organizations and discusses ways to shape the ethical policies and practices of an organization. A conceptual framework of ethical leadership is provided that incorporates the moral nature of human service organization and the ethical responsibility of professional leadership.

ES-Earth Science Courses

Courses

ES 101. Physical Geology. 3 Hours.
Study of the earth, its materials and natural resources, processes of change, natural hazards to mankind. Lecture. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

ES 102. Physical Geology Laboratory. 1 Hour.
Study of properties and uses of rocks and minerals. Study of landscapes and various types of maps. One laboratory session per week.
Prerequisites: ES 101 [Min Grade: D] (Can be taken Concurrently)

ES 103. History of the Earth. 3 Hours.
Interpretation of Earth's history through geologic time. Study of life on Earth through the fossil record. Lecture. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: ES 104 [Min Grade: D] (Can be taken Concurrently)

ES 104. History of the Earth Laboratory. 1 Hour.
Sedimentary materials and environments of formation. Fossil identification. Geologic time and principles of age-dating. One laboratory session per week.
Prerequisites: ES 103 [Min Grade: D] (Can be taken Concurrently)

ES 105. Physical Geography. 3 Hours.
Atmosphere, weather, climate and climatic regions, and soils.


ES 109. Planet Earth. 3 Hours.

ES 110. The Geography of Alabama. 3 Hours.
The physical geography of Alabama: geologic setting, landscape, climate and weather, soils and vegetation, natural resources.

ES 120. Geology for Engineers. 3 Hours.
The solid earth, the nature of the earth's crust, surficial processes.

ES 191. Co-op Work Program. 2-3 Hours.

FLC-Freshman Learning Comm Courses

Courses

FLC 101. Freshman Seminar. 3 Hours.
As the anchor course for each Freshman Learning Community, the Freshman Seminar introduces students to the Shared Vision for a UAB Graduate and especially to the targeted competencies (writing, quantitative literacy, ethics and civic responsibility) within the context of a particular academic theme or focus.

FLL-Foreign Languages Courses

Courses

FLL 101. Introductory Foreign Language I. 3 Hours.
Introduction to a less commonly taught Foreign Language and culture. Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Offered on demand in target language. Language selection rotates. (Core Area II).

FLL 102. Introductory Foreign Language II. 3 Hours.
This course continues introducing students to a less commonly taught Foreign Language and culture. Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Offered on demand in target language. Language selection rotates.
Prerequisites: FLL 101
FLL 120. Foreign Cultures. 3 Hours.
Exploration of the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. Strong emphasis on the epistemology, production, and reception of culture, within and beyond the borders of a particular nation-state. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area II: Humanities.

FLL 160. Freshman Year Experience: Foreign Languages. 1 Hour.
The objective of this course is to introduce incoming freshmen to an education in foreign languages and world cultures in context of the university. It is meant to help prepare students for a successful collegiate career in the study of foreign languages.

FLL 190. Study Abroad: Foreign Language. 1-6 Hour.
Approved novice level study abroad program for a foreign language not regularly offered at UAB, which takes place in a foreign country. Permission of the Department Chair and the Study Abroad Director.

FLL 199. Directed Reading: Foreign Lang. 3 Hours.
This is an individualized course of directed readings and activities for novice Foreign Language students in a foreign language that is not offered regularly at UAB. The course may be offered in the case of a visiting professor in a language that is beyond the scope of regular instructional languages. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy and knowledge of foreign languages.

FLL 220. Foreign Literatures in English Translation. 3 Hours.
Introduction to cross-cultural theory of genre and human experience with a particular emphasis on the historical and cultural context in which literary traditions are shaped, interpreted and reinvented. FLL 220 invites the students to think critically about the formation of literary canons and the ethics of translating cultural difference/sameness. Ethics and Civic Responsibility are significant components of this course.

Prerequisites: FLL 120 [Min Grade: C]

FLL 290. Study Abroad: Foreign Language. 1-6 Hour.
Approved novice level study abroad program for a foreign language not regularly offered at UAB, which takes place in a foreign country. Permission of the Department Chair and the Study Abroad Director.

FLL 299. Directed Reading: Foreign Lang. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Foreign Language students in a foreign language that is not offered regularly at UAB. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy and knowledge of foreign languages. Permission of Department Chair required.

FLL 303. History of World Movies I: The Origins to 1960. 3 Hours.
From the first silent movies to the development of the modern color sound movie of Hollywood in the fifties: comparison and contrast of the views of major film makers of the sixty years of the 20th century.

FLL 304. History of World Movies II. 3 Hours.
From the modern color sound movie of the fifties and the Nouvelle Vague to the latest movies produced around the globe: comparison and contrast of the views of filmmakers of the last forty years.

FLL 333. Foreign Language Internship/SL. 1-6 Hour.
Faculty-supervised opportunity for practical experience in tasks of international scope, may provide opportunities to use language(s) studied or applications of cultural knowledge.

FLL 334. Foreign Language Internship. 0 Hours.
Faculty-supervised opportunity for practical experience in tasks of international scope, may provide opportunities to use language(s) studied or applications of cultural knowledge.

FLL 350. Intro to Romance Linguistics. 3 Hours.
This course provides an introduction to the grammar of Romance languages, with emphasis on French and Spanish. Students will learn about the phonology (sound system), morphology, and syntax of French and Spanish. The course content is presented in a contrastive way, and it is related to the historical background that led to the separation of Latin into the modern Romance languages.

Prerequisites: EH 102 [Min Grade: C]

FLL 410. Undergraduate Foreign Language Research. 1-6 Hour.
This is an individualized course of directed readings and research for Foreign Language students. Course design is determined by the instructor and student and will be tailored to a specific research project. The goal of the course is to increase knowledge of research design and practices in the foreign language discipline. Permission of the Department Chair.

FLL 485. Foreign Language Capstone Seminar. 3 Hours.
Advanced seminar on broad cultural and cross-cultural topics in foreign languages, literatures, and critical theory. Students must complete a Capstone project including substantial Writing assessments with a strong emphasis on Ethics and Civic Responsibility, where they apply cultural literacy in a critical and reasoned manner toward understanding contemporary and/or past foreign cultures. Selected courses may also include a Quantitative Literacy component. Taught in English, readings assignments in English and/or foreign languages. Senior standing, FLL 120, FLL 220 or EH 218 and at least 6 semester hours at the 300 level of student's target language track.

Prerequisites: FLL 120 [Min Grade: C] and FLL 220 [Min Grade: C] or EH 218 [Min Grade: C]

FN-Finance Courses

Courses

FN 101. Personal Finance. 3 Hours.
Selected aspects of finance encountered by an individual during his or her lifetime. Lower-level elective credit only. Not applicable to the finance major. Open to all UAB students.

FN 102. Money and Society. 3 Hours.
The basic principles of the use of money in society are presented in a decision making framework. The objective of this course is to provide students with the tools necessary to analyze financial issues from a global and societal perspective.

FN 103. Money Management 101. 1 Hour.
Covers selected aspects of financial planning encountered by an individual during his or her lifetime. Cannot count as credit toward the finance major.

FN 104. Credit and Insurance 101. 1 Hour.
Covers selected aspects of managing credit and insurance needs that an individual might encounter during his or her lifetime. Does not count toward the finance major.

FN 105. Saving and Investing 101. 1 Hour.
Covers selected aspects of managing investments that an individual might encounter during his or her lifetime. Does not count toward the finance major.
FN 310. Fundamentals of Financial Management. 3 Hours.
Introduction to the basic principles of financial management emphasizing quantitative and qualitative analysis of time value of money, stock and bond valuation, and capital budgeting; risk/return analysis, cost of capital, capital structure and cash flow analysis.
Prerequisites: (AC 201 [Min Grade: C] and [EC 211 [Min Grade: C] or EC 210 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and (EC 210 [Min Grade: C] or EC 202 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and (EC 211 [Min Grade: C] or EC 201 [Min Grade: C]) and (EC 210 [Min Grade: C] or EC 202 [Min Grade: C]) and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 311. Short-Term Financial Management. 3 Hours.
Multidisciplinary approach to analysis of financial statements and working capital management. Financial planning, corporate liquidity, and short-term financial policy issues.
Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 320. Financial Research Methods. 3 Hours.
Introduction to commercial and publicly available financial research databases and the basics of data analysis.
Prerequisites: (IS 303 [Min Grade: C] and FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (IS 303 [Min Grade: C] and EC 301 [Min Grade: C] and FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 350. Equity Portfolio Management. 3 Hours.
Investment theory with emphasis on risk-return tradeoff; equity investment instruments and environment, sources and interpretation of investment information, portfolio theory, market indices, options and futures, and international investing.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 351. Bond Portfolio Management. 3 Hours.
Fixed income markets and instruments, including valuation and portfolio strategies. Derivatives of fixed income securities.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 360. Fundamentals of Healthcare Financial Management. 3 Hours.
Basic principles of healthcare financial management emphasizing time value of money, stock and bond valuation, and capital budgeting; risk/return analysis, cost of capital, capital structure, and cash flow analysis in the context of Healthcare organizations.
Prerequisites: AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C]
FN 370. Principles of Real Estate. 3 Hours.
Upper division course designed to provide the student with a solid foundation for making real estate decisions. Course involves computer-based assignments.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 410. Advanced Financial Management. 3 Hours.
Analysis of long-term corporate financial management; detailed stock and bond valuation, cost of capital, capital budgeting, cash-flow analysis, capital structure, and dividend policy.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 411. Case Studies in Financial Management. 3 Hours.
Case method approach to study of applied and special topics in financial management; spreadsheet applications used in analysis of initial public offerings, imbedded options, leases, mergers, bankruptcy, and pension plan management.
Prerequisites: (FN 410 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 410 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 412. International Financial Management. 3 Hours.
Financial analysis and decision making in international context. All traditional areas of corporate finance explored.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 420. Financial Sales & Trading. 3 Hours.
This course introduces interactive trading in financial instruments. Students learn the principles of asset price discovery through real-time trading in a variety of markets, including equities, bonds, options and derivatives. Topics addressed include asset valuation, portfolio management, and risk management in the context of real-time trading of financial instruments.
Prerequisites: (FN 310 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and FN 350 [Min Grade: C] and FN 351 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 452. Management of Financial Intermediaries. 3 Hours.
Roles, activities, and functions of financial institutions and their interrelationships.
Prerequisites: (FN 310 [Min Grade: C] and EC 301 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and EC 301 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 453. Financial Risk Management. 3 Hours.
Domestic and international risk management issues. Tools to measure and manage interest rate; exchange rate and commodity price risks.
Prerequisites: (FN 350 [Min Grade: C] and FN 410 [Min Grade: C] and FN 412 [Min Grade: C] and IB 412 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 350 [Min Grade: C] and FN 410 [Min Grade: C] and FN 412 [Min Grade: C] and IB 412 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 460. Finance Internship. 3 Hours.
A work experience to enable students to better integrate academic knowledge with practical applications and to enhance students educational experiences by making subsequent study more meaningful. Permission of the instructor required.
Prerequisites: (FN 310 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 310 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FN 470. Real Estate Finance. 3 Hours.
A study of the instruments, techniques and institutions of real estate finance and the use of financial analysis in real estate decisions.
Prerequisites: (FN 370 [Min Grade: C] and GPAT and GPAO 2.00) or (FN 370 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
FR-French Courses

Courses

FR 101. Introductory French I. 4 Hours.
This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where French is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

FR 102. Introductory French II. 4 Hours.
This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where French is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

FR 108. Introductory Intensive French. 4 Hours.
Intensive study of the essentials of language needed for proficient communication. This is a high-paced course, which includes basic exercises in listening comprehension, speaking, writing and reading, as it combines FR 101 and 102. Includes a one-hour lab requirement. This course meets the Core Curriculum requirements for Area II: Humanities.

FR 190. Study Abroad. 1-6 Hour.
First-year level of approved study-abroad program in a French-speaking country.

FR 201. Intermediate French I. 3 Hours.
This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where French is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

Continuation of French 201. Continued review of grammar and composition through written exercises of reading, writing, listening comprehension, and speaking skills. Conducted in French. This course meets the Core Curriculum requirements for Area II: Humanities.

FR 206. Intermediate Business French. 3 Hours.
Concentration on writing letters, negotiations and vocabulary build-up for the legal, medical or business fields. Conducted in French. May not concurrently enroll in FR 306.

FR 210. Intermediate French Culture. 3 Hours.
Overview of contemporary French cultural identity, in the context of geographical, social and educational dynamics. Conducted in French. May not concurrently enroll in FR 310.

FR 211. Intermediate Survey of French Literature. 3 Hours.
Intermediate-level overview of French literature and civilization from the seventeenth century to the present. Conducted in French. May not concurrently enroll in FR 311.

FR 220. Intermediate French Composition. 3 Hours.
Fundamental composition course focusing on syntactical patterns of French, vocabulary building, correct usage, stylistic control, writing skills, and free composition. Conducted in French. May not concurrently enroll in FR 320. Writing is a significant component of this course.

FR 230. Intermediate French Conversation. 3 Hours.
Acquisition of conversational and listening skills, vocabulary, and oral automatisms. Conducted in French. May not concurrently enroll in FR 330.

FR 290. Study Abroad. 1-6 Hour.
Approved program in a French-speaking country. Prerequisite: Permission of Department Chair.

FR 305. French-Speaking Cinema. 3 Hours.

FR 306. Business French. 3 Hours.
Concentration on writing letters, negotiations and vocabulary build-up for the legal, medical, or business fields. Conducted in French.

FR 307. Advanced Grammar and Composition I. 3 Hours.
Thorough review of principles of French grammar, vocabulary, and idioms. Also comparative linguistics and phonetics. Conducted in French.

FR 308. Advanced Grammar and Composition II. 3 Hours.

FR 310. Advanced French Culture. 3 Hours.
Overview of the culture of contemporary France with emphasis on social, political, and economic institutions. Concentrates on understanding and comparing French cultural, social, educational, institutional, political, and technological dynamics, at an advanced level. Conducted in French. May not take concurrently with FR 210.

FR 311. Greatest Hits of French Literature. 3 Hours.
This course is an overview of French civilization, culture, literature, and the arts from early to contemporary times. Highlights of best selling works of various authors, with emphasis on fundamental literary concepts and distinctive stylistic features of French discourse, will be reviewed. Conducted in French. May not be taken concurrently with FR 211.
FR 320. Advanced French Composition. 3 Hours.
Fundamental composition course which focuses on the syntactical patterns of French, vocabulary building, correct usage, stylistic control, writing skills, and free composition. Integrates the four language skills into a structured approach to composition. Conducted in French. May not take concurrently with FR 220.

FR 330. Advanced French Conversation. 3 Hours.
Acquisition of conversational and listening skills, vocabulary, and oral automatisms. Conducted in French. Preq: 6 hours of French at the minor level (or equivalent) or permission of instructor. May not concurrently enroll in FR 230.

FR 390. Study Abroad. 1-6 Hour.
Approved program in a French-speaking country.

FR 399. Special Readings in French. 3 Hours.
Individualized course of directed readings and activities for students of French. Permission of Department Chair required.

FR 401. Pre-Revolutionary France (1610-1789). 3 Hours.
Literature, culture, and civilization of seventeenth- and eighteenth-century France, reflecting the historical and literary ambience in which Ancient Regime writers, philosophers, and artists worked. Selected works of representative authors. Conducted in French.

FR 402. Post-Revolutionary France (1789-1913). 3 Hours.
Literature, culture, and civilization of late eighteenth-, nineteenth-, and early twentieth-century France, illustrating the impact of the French Revolution on the historical and literary ambience of Europe and the Americas. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 403. Fin-de-Siecle France (1895-1940). 3 Hours.
Major literary and artistic movements of fin-de-siecle France, from La Belle Epoque period through World War I. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 404. French Literature since 1940. 3 Hours.
Cultural trends and literary movements from World War II to the present, including existentialism and the Nouveau Roman. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 405. Francophone Literature. 3 Hours.
French-speaking literature outside France that developed through colonization, decolonization, revolution, and emigration. Representative writers from Francophone countries with emphasis on Africa and the Caribbean. Selected works of representative authors. Selections will vary according to instructor. Conducted in French.

FR 410. Special Topics in French. 3 Hours.
Seminar on individual authors, specific genres, important literary movements, or literary discourse/theory. Selected works of representative authors. Selections will vary according to instructor. Conducted in French. May be repeated for credit.

FR 412. French Civilization: before 1789 Pre-Revolutionary. 3 Hours.
Historical and cultural foundation of France, from its conquest by Julius Caesar to the French Revolution. Conducted in French.

FR 413. French Civilization after 1789 Post-Revolutionary. 3 Hours.
The history and myths of France after the French Revolution that produced French civilization. Conducted in French.

FR 490. Study Abroad: French. 1-6 Hour.
Approved program in a French-speaking country.

FR 499. Directed Studies. 3 Hours.
Individualized course of directed readings and activities for students of French. Permission of Department Chair required.

GCLH-Global Comm Ldshp Honors Courses

Courses

GCLH 105. Exploring Birmingham: Change and Power. 3 Hours.
Exploring Birmingham is a first-year GCL field experience which uses the City as Text pedagogy to engage students in a structured exploration of Birmingham and the social, political, economic and environmental forces which shape it. Through readings, films, discussions, lectures, and personal experiences in the city itself, students learn how to gather and analyze information, think critically about difficult and contentious issues, and integrate learning across disciplines.

GCLH 150. Burning Issues. 3 Hours.
Introductory course for students in the Global and Community Leadership Honors Program. Students will learn about various issues impacting the world today. Course will include guest speakers, topical readings, and significant reflective writing. Ultimately, students will select the issue that ignites their passion – their “burning issue”.

GCLH 200. Thinking Like a Leader. 1-3 Hour.
This course will examine social change leadership models and explore the characteristics, values, and beliefs of such leaders past and present. It is a required course for all Global and Community Leadership Honors Program students.

GCLH 205. Leadership and Community/SL. 1-3 Hour.
The second required GCL field experience uses the service-learning pedagogy, providing students partnerships with selected community or local government agencies. Through readings, discussions and written reflections, students will explore the meaning of service and leadership as they work throughout the semester with their community partners. The goal of the course is to bring students to a deeper understanding of their role as leaders in service to those communities where they find themselves living and working, as well as those they wish to affect in positive ways.

Prerequisites: GCLH 105 [Min Grade: C]

GCLH 210. Thinking Locally and Globally. 1-3 Hour.
This course engages students in moderator development techniques needed to conduct community forums and exposes them to cross-cultural participatory decision-making through an immersion experience.

Prerequisites: GCLH 105 [Min Grade: C] and GCLH 205 [Min Grade: C]

GCLH 301. Leadership and Community Engagement. 1-3 Hour.
This course provides students with field experiences in partnership with community or local government agencies. Through readings, discussions and written reflections, students will explore the meaning of leadership and community engagement. Student placements are based on an issue of interest, thus allowing them to apply knowledge gained in both their major field and leadership courses. The goal of the course is to bring students to a deeper understanding of their role as leaders in service to the community and in applying knowledge for the benefit of Birmingham and beyond.

Prerequisites: GCLH 105 [Min Grade: C] and GCLH 205 [Min Grade: C] and GCLH 210 [Min Grade: C] and HAC 301 [Min Grade: C]
GCLH 350. Stoking the Fire: Leadership in Action. 3 Hours.
Practical application of leadership skills for students in the Global and Community Leadership Honors Program. Students will learn, develop, and put into practice a pragmatic skill set for management and operations in social change leadership.

GEO-Geography Courses

Courses

GEO 101. Intro to Geography. 3 Hours.
Basic concepts and principles underlying major research traditions of geography, including earth science, culture-environment, and location and area analysis.

GEO 109. Intro to Urban Geography. 3 Hours.
External and internal spatial processes of cities and city systems with emphasis on contemporary urban problems.

GEO 121. World Regional Geography. 3 Hours.
Modern world's great culture realms using basic ideas and concepts in field of geography.

GEO 221. Geography of North America. 3 Hours.
Nature and character of places, especially as caused by relationship between human beings and environment.

GEO 304. Looking at Earth: Maps Satellite Images and GIS. 3 Hours.
Introduction to maps as analytic tools in the social behavioral, and applied sciences. Students are provided training in the theory and method of cartographic representation, aerial and satellite image analysis and geographic information system. Equal weight will be placed on first principles, practical training in computer methods, and case studies selected from different regions of the earth.

Prerequisites: GEO 101 [Min Grade: C]

GEO 415. Political Economy/Race in Bham. 3 Hours.
Critical analysis of race in the political economy of Birmingham from the postbellum period to the era of Civil Rights.

GEO 491. Environmental Policy. 3 Hours.
Institutions, processes, actors and key issues in environmental policy.

GER-Gerontology Courses

Courses

GER 280. Biology of Aging. 3 Hours.
Current understanding of aging, measurement of aging changes, theories of aging, and aging changes in various human systems.

Prerequisites: BY 123 [Min Grade: D]

GER 285. Introduction to Aging. 3 Hours.
Aging experience in modern world. Theories of aging, dimensions of aging, everyday concerns associated with aging, and future prospects of aging. Guest lectures by professionals in the field and other faculty in gerontology.

GER 309. Community Resources for Special Populations. 3 Hours.
Analysis of community-based programs for specific populations: older citizens, persons with HIV/AIDS, and the chronic mentally ill.

GER 397. Advanced Directed Readings in the Biology of Aging. 1-3 Hour.
Reading and independent study in selected areas under supervision of faculty sponsor. Gerontology topic required.

GER 398. Research Practicum in Psychology. 1-3 Hour.
Independent project, study, or reading supervised by member of faculty.

GER 403. Politics of Aging. 3 Hours.
Role of aging in political process. Political demands made by elderly, role of aging in political decision-making, and policy outputs relevant to older population.

GER 407. Pathology of Memory. 3 Hours.
Memory disorders from stand point of experimental psychology and neuropsychology. Amnesic syndrome, dementia, transient memory disorders, Alzheimer's disease, epidemiology and public health issues.

GER 411. Bio-Psycho-Social Aspects of Aging for the Health. 3 Hours.
Overview of current gerontological-geriatric information. Special needs of the elderly in receiving healthcare services.

GER 420. Anthropology of Old Age. 3 Hours.
Anthropology of Old Age: Cross-cultural perspective of status alternatives for elderly. Examination of differing roles, especially kinship, of elderly in Africa, Europe, Oceania, Middle East, and various ethnic groups in U.S.

GER 425. Psychology of Aging. 3 Hours.
Age changes in human cognition and behavior. Sensory processes, memory, intelligence, physiology and health, psychopathology, and life-span development and adjustment.

GER 438. Gerontology and Geriatrics Multidisciplinary Core. 3 Hours.

GER 455. Minority Aging. 3 Hours.
Cross-racial/ethnic exploration on national level of special problems of minority aged groups such as Latinos, Blacks, Chinese, Japanese, Koreans, Pacific-Asians, and American Indians. Family, church, health care, housing, adult education, retirement, income, and recreation.

Prerequisites: SOC 100 [Min Grade: D]

GER 456. Death and Dying. 3 Hours.
Death and dying from sociological and social psychological perspectives. Social significance of death as human existential phenomenon. Recent trends in definition, distribution, and handling of death and dying (e.g., interaction with dying persons, hospice movement, and funeral practices).

Prerequisites: SOC 100 [Min Grade: D]

GER 457. The Aging Family. 3 Hours.
Exploration of changes in family structure; status of aging in family in various societies; intra-and inter-generational relations; family-related role transitions.

Prerequisites: SOC 100 [Min Grade: D]

GER 462. Environment and Aging. 3 Hours.
Analysis of special consequences of residential environment for older people. Patterns of residence among elderly; fit between lifestyles and types of residence; consequences of living in segregated versus age-integrated neighborhoods, retirement homes, and nursing homes; examination of policy options.

GER 480. Women and Aging. 1 Hour.
Subjects of special interest, such as women and religion, women in civil rights movement, and theories of women's studies. Varies in content depending upon topic. Students may enroll under these numbers multiple times but topic may not be repeated.

GER 485. Age Stratification. 3 Hours.
Description of normal aging process; survey of individual troubles and group social problems associated with aged. Specific topics include health, economic status, work/retirement, family relations, housing/living environments, and transportation problems.
GER 488. Sociological Practice. 3 Hours.
Students will be involved in community research projects related to intergenerational relations, aging, medicine, and/or health. Placement in community organizations, e.g., schools, senior centers, to focus on research methods related to social policy.
Prerequisites: SOC 100 [Min Grade: D]

GER 490. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 491. Independent Study and Special Courses in Sociology. 1-3 Hour.
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 498. Independent Study I. 1-3 Hour.
Community service projects under direction of faculty.

GER 499. Independent Study II. 1-3 Hour.
Community service projects under direction of faculty.

GL-Geology

Courses
GL 201. Invertebrate Paleontology. 4 Hours.

GN-German Courses

Courses
GN 101. Introductory German I. 4 Hours.
This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where German is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

GN 102. Introductory German II. 4 Hours.
This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where German is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

GN 190. Study Abroad. 1-6 Hour.
Approved novice-level program in German-speaking country. Course of study will vary according to array of approved offering and student interest. Permission of the Department Chair and Director of Education Abroad required.

GN 201. Intermediate German I. 3 Hours.
This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where German is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

GN 202. Intermediate German II. 3 Hours.
Continuation of GN 201. Conducted in German. This course meets the Core Curriculum requirements for Area II: Humanities.

GN 203. German Culture and Civilization. 3 Hours.
Introduction to historical and contemporary aspects of German culture through readings and other media. Emphasizes continued development of oral and written skills. Conducted in German.

GN 204. Readings in German Literature. 3 Hours.
Selections from representative modern authors. Emphasis on oral and written practice. Conducted in German. This course meets the Core Curriculum requirements for Area II: Humanities.

GN 205. German for the Professions. 3 Hours.
Intensive conversation course designed to acquaint students with more extensive vocabulary of German-speaking professionals. Students also learn about the cultural context in which German is used in various professions. Conducted in German.

GN 206. German for Technology and Media. 3 Hours.
Practice in the use of technology and media in German Studies. Conducted in German.

GN 210. German Culture and Civilization II. 3 Hours.
Highlights of cultural history from the Middle Ages to the present.

GN 290. Study Abroad. 1-6 Hour.
Approved program in a German-speaking country.

GN 299. Special Readings in German. 3 Hours.
This is an individualized course of directed readings and activities for intermediate students of German. Course design is determined by the instructor and the student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of German language and culture. Intermediate proficiency in reading, writing, listening and speaking German is the targeted outcome. Permission of Department Chair required.
Prerequisites: GN 201 [Min Grade: D]

GN 390. Study Abroad. 1-6 Hour.
Approved program in a German-speaking country.

GN 399. Directed Readings in German. 3 Hours.
Special Readings in German.

GN 480. Special Topics in German Literature. 3 Hours.
Emphasis on particular authors, genres, or topics. May be repeated for credit.

GN 490. Study Abroad: German. 1-6 Hour.
Approved program in a German-speaking country.

GN 499. Directed Studies in German. 3 Hours.
Directed studies. Permission of Department Chair required.

HC-Honors College

Courses
HC 101. Honors College Leadership. 1-3 Hour.
This course is the first course in the three-course Honors College leadership series. Specifically, this course is an introduction to the study of leadership; including the study of traits and characteristics of leaders, values & ethics used in leadership, the situational nature of leadership, the importance of Emotional Intelligence in leadership, and the study of leadership as a team activity.
HC 110. Honors Seminar: Special Topics. 1-3 Hour.
Honors College seminar. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience course.

HC 111. Honors Seminar in Engineering. 1-3 Hour.
Honors College seminar in Engineering. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 112. Honors Seminar in Public Health. 3 Hours.
Honors College seminar in Public Health. Course content varies and is based on topics in Public Health of interest to honors students. Freshmen honors students may take in lieu of a First Year Experience course.

HC 113. Honors Seminar in Education. 1-3 Hour.
Honors seminar in Education. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 114. Honors Seminar in Business. 1-3 Hour.
Honors College seminar in Business. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 115. Honors Seminar in Health Professions. 1-3 Hour.
Honors College seminar in Health Professions. Course content varies and is based on health-related topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 116. Honors Seminar in Social and Behavioral Sciences. 1-3 Hour.
Honors College seminar in Social and Behavioral Sciences. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 117. Honors Seminar in Natural Sciences and Mathematics. 1-3 Hour.
Honors College seminar. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 118. Honors Seminar in Arts and Humanities. 1-3 Hour.
Honors College seminar in Arts and Humanities. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 119. Honors Seminar. 1-3 Hour.
Honors College seminar. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 120. Honors Seminar. 1-3 Hour.
Honors College seminar. Course content varies and is based on topics of interest to honors students. Honors students may take in lieu of a First Year Experience (FYE) course.

HC 201. Leadership Skills. 1-3 Hour.
This course is the second course in the three-course Honors College leadership series. HC 101 focused on leadership principles and individual characteristics that contribute to a leader's style. HC 201 will focus on planning the project to be carried out in HC 301 and on related leadership skills such as communication methods, professionalism and the identification of measureable outcomes.
Prerequisites: HC 101 [Min Grade: C]

HC 300. Contemporary Social Issues, Leadership and Scholarship. 3 Hours.
Analysis of classical and modern foundations and principles of leadership and a survey of contemporary social issues. Practice in scholarship essay writing, interviewing, and critical thinking. Intended for national and international scholarship and fellowship applicants. Enrollment limited to sophomores and juniors.

HC 301. Advanced Leadership Skills and Practice. 1-3 Hour.
Provides students with an opportunity to lead an independent project using leadership principles and skills.
Prerequisites: HC 201 [Min Grade: C]

HC 395. Honors Study Abroad. 3 Hours.
Students will participate in an honors study abroad experience. Instructor and Director of Education Abroad approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 396. Honors Service Learning. 3 Hours.
Students will propose and complete a service learning project under the supervision of a faculty member. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 397. Honors Independent Study. 3 Hours.
Students will propose and complete an honors-level academic project under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 398. Honors Undergraduate Research Studies. 3 Hours.
Students will propose and conduct an undergraduate research project under the supervision of a faculty mentor. Instructor approval required. Must be an Honors College student in good standing. May be repeated for credit.

HC 399. Internships or Co-op Studies. 3 Hours.
Students will propose and complete an internship or co-op experience under the supervision of a faculty mentor. Must be an Honors College student in good standing. Instructor approval required. May be repeated for credit.

HC 401. Honors Independent Leadership Project. 1-3 Hour.
Students will propose and complete a leadership experience under the supervision of a faculty mentor. Must be an Honors College student in good standing. Instructor approval required. May be repeated for credit.

HC 402. Leadership in Practice. 1-3 Hour.
This course is the third course in the three-course Honors College leadership series. HC 101 focused on leadership principles and individual characteristics that contribute to a leader's style. HC 201 focused on planning the project to be carried out in HC 301 and on related leadership skills such as communication methods, professionalism and the identification of measureable outcomes. HC 402 will focus on the execution of the project to be carried out in HC 301.
Prerequisites: HC 301 [Min Grade: C]

HCM-Health Care Management

Courses

HCM 302. Principles of Management in Health Care. 3 Hours.
Basic management concepts in context of health care organizations; oral and written communication; planning and goal setting; decision-making and problem solving; personnel selection; performance appraisal.

HCM 305. Effective Communication and Professionalism in Health Care. 2 Hours.
Professional traits, behaviors, skills, and attitudes needed to perform in a professional, ethical, and competent manner in the health care environment.

HCM 318. Law for Health Care Professionals. 3 Hours.
Principles of law and U.S. legal system as applied in health care organizations; documentation, privacy, security, and release of health information; liability, consent, and malpractice.
HCM 320. Microcomputer Applications for Health Care Professionals. 3 Hours.
Word Processing, spreadsheet, database, file management, information systems, internet, and presentation applications in managerial functions.

HCM 325. Healthcare Law and Ethics. 3 Hours.
Principles of law and ethics in the U.S. healthcare legal system as applied in health care organizations; patient's rights, privacy, security confidentiality, informed consent, documentation and release of health information, liability, and malpractice.

HCM 330. Health Care Systems. 3 Hours.
Overview of U.S. health care system; implications of environmental trends and health care policy on health care organizations; introduction to financing of health care.

HCM 350. Medical Terminology for Health Professionals. 3 Hours.
Systematic study of medical terminology with emphasis on constructing, understanding and using medical terms. Content includes diseases, symptoms & signs of disease, diagnostic, and clinical procedures and treatment modalities.

HCM 360. Statistics for Managers. 3 Hours.
Basic descriptive and inferential statistics as applied in managerial processes; computer-based graphic analysis of data; use of computer-based statistical software; application of statistical process control tools. Quantitative Literacy is a significant component of this course.
Prerequisites: MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C]

HCM 375. Managerial Epidemiology. 3 Hours.
Methods and applications of managerial epidemiology; measurement and epidemiological tools that inform health care management decisions.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 401. Organizational Studies in Health Care. 4 Hours.
Behavioral science concepts including leadership, managing change, negotiating and conflict resolution, team building, organizational assessment, marketing, and entrepreneurship in the context of health care organizations.
Prerequisites: (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]) and AHS 320 [Min Grade: C]

HCM 402. Economics for Healthcare Managers. 3 Hours.
Principles of economics of the health care system on the basis of incentives, risk management, asymmetrical information, and moral hazards; practical application of economic principles, including supply and demand, market structure and forecasting.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C] and (HIM 415 [Min Grade: C] or AHS 320 [Min Grade: C]) and (AHS 318 [Min Grade: C] or HCM 318 [Min Grade: C])

HCM 403. Operations Management in Health Care Organizations. 4 Hours.
Operational functions of mid-level managers in health care organizations including work design and re-engineering; systems theory; development, planning, and analysis; ergonomics and work environment; quality improvement techniques.
Prerequisites: (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]) and (AHS 360 [Min Grade: C] or HCM 360 [Min Grade: C]) or MA 180 [Min Grade: C] or PY 214 [Min Grade: C] or PY 216 [Min Grade: C] or QM 214 [Min Grade: C]

HCM 405. Human Resource Management in Health Care Organizations. 4 Hours.
Managerial activities in health care organizations related to job descriptions, recruiting, interviewing, hiring, firing, orientation, benefits, appraisal, discipline, and developing clinical and non-clinical personnel.
Prerequisites: (HIM 415 [Min Grade: C] or AHS 320 [Min Grade: C]) and (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C])

HCM 407. Strategic Management in Health Care Organizations. 3 Hours.
Overview of strategic management process; strategic planning in health care organizations from perspective of mid-level manager; emphasis on operational level implementation and control.
Prerequisites: AHS 403 [Min Grade: C] or HCM 403 [Min Grade: C]

HCM 409. Personnel Management in Long-Term Care. 1 Hour.
Planning for staffing and staff development of clinical and non-clinical personnel in long-term care facilities.
Prerequisites: AHS 405 [Min Grade: C] or HCM 405 [Min Grade: C]

HCM 410. Long Term Care Facilities Management. 3 Hours.
Overview of administrative responsibility for physical facilities; environmental safety; emergency preparedness and response; interdependence and functioning of medical, nursing, social, dietary, and other key resident services.

HCM 411. Biological, Psychological, and Sociological Issues of Aging. 3 Hours.
Overview of current gerontological-geriatric information; special needs of the elderly in receiving health care services.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 415. Ethics for Health Care Professionals. 3 Hours.
Overview of major ethical theories; ethical decision making models; application to patients rights, confidentiality, informed consent, professional relationships, and allocation of scarce resources. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: (AHS 318 [Min Grade: C] or HCM 318 [Min Grade: C]) and (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C])

HCM 416. Financial Management in Health Care Organizations. 3 Hours.
Overview of financial management functions at the department level; budgeting and cost analysis for department-level operations and capital expenditures. Fullfills the requirements in Quantitative Literacy.
Prerequisites: (AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]) and (AC 200 [Min Grade: C] and AC 201 [Min Grade: C]) or BUS 310 [Min Grade: C]

HCM 417. Financial Management for Long Term Care Administrators. 2 Hours.
Overview of financial management practices and reimbursement issues and methodologies in long term care facilities.
Prerequisites: (AHS 416 [Min Grade: C] or HCM 416 [Min Grade: C]) and (AHS 421 [Min Grade: C] or HCM 421 [Min Grade: C])

HCM 418. Legal and Regulatory Issues in Long Term Care. 3 Hours.
Governance and administrative responsibilities for compliance with LTC licensure laws, government and accrediting regulations, and facility policies.
Prerequisites: HCM 318 [Min Grade: C] and HCM 330 [Min Grade: C]

HCM 420. Long Term Care Resident Care and Quality. 2 Hours.
Planning, managing, and evaluating programs that enhance resident quality of life in long-term care facilities.
HCM 421. Introduction to Long Term Care Administration. 3 Hours.
Introduction to the long term care industry and nursing facility operations through seminars, independent media research, and experiential learning.
Prerequisites: HCM 330 [Min Grade: C]

HCM 425. Healthcare Reimbursement Methods. 3 Hours.
Review of diverse financial systems within American healthcare, focus on reimbursement methods and payment systems and how they affect providers and payers. Review of major insurance programs, federal health care legislation, legal/regulatory issues, diagnosis and procedure coding systems, and the impact of coding on reimbursement, compliance and fraud and abuse.
Prerequisites: (AHS 350 [Min Grade: C] or HCM 350 [Min Grade: C]) and HCM 330 [Min Grade: C]

HCM 430. Documentation Requirements in Long Term Care. 2 Hours.
Overview of clinical documentation requirements in long term care facilities, including the Resident Assessment Instrument, Minimum Data Set, and Patient Care Plan. Additional Focus on information privacy and security.
Prerequisites: HCM 421 [Min Grade: C] and HCM 330 [Min Grade: C]

HCM 431. Planning and Implementing HE. 3 Hours.
Content and process planning, implementing, and evaluating programs in health education and health promotion. Sociological, psychological, and epidemiological foundations of health promotion programs. Development of practical skills for school, occupational, clinical, and community settings. A comprehensive program planning assessment will reinforce quantitative literacy in the profession. Quantitative Literacy is a significant component of this course.

HCM 432. Continuum of Long-Term Care. 3 Hours.
Survey of providers of long term and elder care, including scope of services provided, review of reimbursement methodologies, clientele served, and political issues affecting their operational practices.
Prerequisites: HCM 421 [Min Grade: C] and HCM 330 [Min Grade: C]

HCM 435. Clinical and Administrative Information Systems. 3 Hours.
Overview of information systems and applications in health care organization; issues and challenges in system design and implementation.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 450. Quality Management in Health Care. 3 Hours.
Concepts of monitoring and evaluating the quality and appropriateness of patient care and services provided in health care organizations; overview of regulatory guidelines and industry standards; current issues in quality measurement and outcomes.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 460. Research Methods. 3 Hours.
Research Methods.
Prerequisites: (AHS 360 [Min Grade: C] or HCM 360 [Min Grade: C]) or MA 180 [Min Grade: C] or OM 214 [Min Grade: C] or PY 214 [Min Grade: C] or PY 216 [Min Grade: C]

HCM 474. Service Learning in Health Care Management. 2 Hours.
Classroom and experiential learning through designed community based or clinically related service experiences. Students work with community partners to monitor patient health and wellness while gaining insight into the barriers to healthcare access, costs, and quality.

HCM 475. Special Topics in Health Care Management. 1-4 Hour.
Exploration of current issues in Health Care Management.

HCM 480. Health Care Policy and Reform. 3 Hours.
Identification and discussion of health policy issues facing the U.S. and economic implications of health policy and health care reforms over time.
Prerequisites: AHS 330 [Min Grade: C] or HCM 330 [Min Grade: C]

HCM 481. Health Care Management Internship. 3.6 Hours.
Capstone course places students in selected healthcare setting supervised by experienced preceptors. Students are exposed to day-to-day managerial functions and participate in organizational projects. Students draw upon, synthesize, and apply classroom learning to healthcare organization environments. Activities focus on the development of problem solutions, effective communications and research skills. Projects focus on Service Learning and students also explore the culture, ethical issues and community impact of the organization.
Prerequisites: (AHS 401 [Min Grade: C] or HCM 401 [Min Grade: C]) and (AHS 403 [Min Grade: C] or HCM 403 [Min Grade: C]) and (AHS 405 [Min Grade: C] or HCM 405 [Min Grade: C]) and (AHS 407 [Min Grade: C] or HCM 407 [Min Grade: C]) and (AHS 480 [Min Grade: C] or HCM 480 [Min Grade: C])

HCM 482. Current Issues in Health Care. 3 Hours.
Identification of current issues in the health care industry, with an emphasis on analyzing organizational impact.
Prerequisites: HCM 330 [Min Grade: C]

HCM 483. Long Term Care Health Care Management Internship. 10 Hours.
Supervised experience in managerial functions in selected long-term care health care organizations.
Prerequisites: HCM 401 [Min Grade: C] and HCM 403 [Min Grade: C] and HCM 405 [Min Grade: C] and HCM 407 [Min Grade: C] and HCM 408 [Min Grade: C](Can be taken Concurrently)

HE-Health Education Courses

HIM-Health Information Mgmt Courses

Courses

HIM 318. Survey of Human Anatomy and Physiology for Coding. 3 Hours.
Survey course on the structure and function of the body. A systems approach emphasizing basic anatomy and physiology of the human body.
Prerequisites: AHS 350 [Min Grade: C]

HIM 405. Clinical Information I. 3 Hours.
Study of diseases with emphasis on medical terminology relevant to clinical documentation in inpatient and outpatient health care settings. Course content includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology for cardiovascular, respiratory, blood, lymphatic, immune, musculoskeletal, integumentary, and endocrine body systems and sense organs, oncology and psychiatry.
Prerequisites: BY 115 [Min Grade: C] and BY 116 [Min Grade: C] or HIM 318 [Min Grade: C]
HIM 410. Clinical Information II. 3 Hours.
Study of diseases with emphasis on medical terminology relevant to clinical documentation in inpatient and outpatient health care settings. Course content includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology for cardiovascular, respiratory, blood, lymphatic, immune, musculoskeletal, integumentary, and endocrine body systems and sense organs, oncology and psychiatry. An emphasis will be put on writing a professional paper on a clinical topic. Writing is a significant component of this course.
Prerequisites: BY 115 [Min Grade: C] and BY 116 [Min Grade: C]

HIM 415. Introduction to Health Information Management. 3 Hours.
Study of HIM profession and employment opportunities; functions of a HIM department and ancillary hospital departments; HIM professional ethics; HIM professional associations; applications of principles of management to the efficient administration of health information services; numbering, filing and preservation of records; master patient index and the role of The Joint Commission and other accrediting agencies. An emphasis is placed on the student's ability to apply HIM professional ethics in real world case scenarios. Ethics and Civic Responsibility are significant components of this course.

HIM 416. Health Data Concepts. 3 Hours.
Study of the origin, uses, content and format of health care data across the continuum of health care including both paper and electronic health records; accreditation, certification and licensures standards applicable to health records and documentation requirement in various healthcare facilities relative to the Joint Commission on Accreditation of Healthcare Organizations, Center for Medicare and Medicaid Services, American Osteopathic Association and Alabama requirements.
Prerequisites: HIM 415 [Min Grade: C](Can be taken Concurrently)

HIM 417. Pathology for Coders. 3 Hours.
Study of disease with emphasis on the pathology relevant to clinical documentation in health care settings; includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology, for all body systems.
Prerequisites: AHS 350 [Min Grade: C] and (HIM 318 [Min Grade: C] or BY 115 [Min Grade: C] or BY 116 [Min Grade: C])

HIM 418. Documentation Standards for Health Data. 3 Hours.
Origin, uses, content, and format of data across the continuum of health care, including paper and electronic health records; primary and secondary data sources; documentation best practices; accreditation standards and regulations applicable to documentation requirements.
Prerequisites: AHS 350 [Min Grade: C] and AHS 318 [Min Grade: C]

HIM 425. Epidemiology and Applied Statistics in Health Care Organizations. 3 Hours.
Concepts of epidemiology; basic biostatistics; vital statistics; data collection and data presentation; study designs. Quantitative Literacy is a significant component of this course.

HIM 430. Clinical I. 1 Hour.
Supervised projects/assignments at approved professional practice sites where student applies theory from HIM courses. Projects/assignments include: filing and retrieval, registration processes, assembly/analysis of paper/electronic records; confidentiality and release of medical information; security, storage and retention of health records; HIM department systems analysis and workflow; HIM department organization and functions; and paper/electronic forms design.

HIM 431. Clinical II. 1 Hour.
Supervised projects/assignments at approved professional practice sites where student applies theory from HIM courses. Projects/assignments include: identification of statistical reporting and data requirements; regulatory, compliance and quality responsibilities/functions; case management or utilization management functions, ICD-9-CM/CPT-4 coding; case mix management; revenue cycle; and HIM department productivity.

HIM 440. ICD-10-CM Coding. 4 Hours.
Diagnostic and procedural coding, including the principles of ICD-10-CM coding and UHDDS guidelines.
Prerequisites: HIM 405 [Min Grade: C] and BY 115 [Min Grade: C] and BY 116 [Min Grade: C] or HIM 318 [Min Grade: C]

HIM 441. Diagnostic Coding for Health Care Organizations. 3 Hours.
Study of diagnostic and procedural coding including the principles of ICD-10-CM/PCS and UHDDS guidelines; assignment and sequencing of principal diagnosis and procedure.
Prerequisites: AHS 350 [Min Grade: C] and HIM 318 [Min Grade: C] and HIM 417 [Min Grade: C] and HIM 418 [Min Grade: C](Can be taken Concurrently)

HIM 443. Information Resource Management. 3 Hours.
Overview of information management functions related to obtaining, managing, and using information to improve patient outcomes and health care facility performance in patient care, governance, management, and support processes.

HIM 450. Clinical Research. 3 Hours.
Study of design concepts and information systems to support clinical and health services research and investigation, e.g. drug companies, genetic engineering firms, academic institutions and individual researchers; major national research policy-making bodies, their research protocols and their management of information. Students will perform statistical analysis and display of data and results and will critically evaluate published reports of clinical and epidemiological studies.
Prerequisites: HIM 425 [Min Grade: C]

HIM 455. Reimbursement and Regulatory Requirements for HIM. 3 Hours.
Financial aspects of healthcare involving prospective reimbursement; managing the coding function in healthcare organization; quality assurance of coded data; DRGs and other case mix systems; security issues under HIPAA.
Prerequisites: HIM 440 [Min Grade: C] and HIM 460 [Min Grade: C]

HIM 458. Clinical Terminology and Vocabulary. 3 Hours.
Overview of clinical terminologies, vocabularies and classification systems including purposes, organization and structures, mappings in the electronic health record (EHR), and future roles in eHIM.
Prerequisites: HIM 440 [Min Grade: C]

HIM 460. Coding/Classification Systems. 3 Hours.
Ambulatory care coding -- CPT-4, HCPCS, and CMS's coding and reporting requirements for ambulatory care.
Prerequisites: HIM 405 [Min Grade: C]

HIM 465. Clinical Evaluation and Outcomes Research. 3 Hours.
Review of current approaches to measuring, evaluating, and reporting clinical outcomes in health care organizations.

HIM 470. Data Management. 3 Hours.
Data collection for enterprise; reportable and specialized databases; data mining of healthcare data; data information; file structures; data security; and data retrieval.
Prerequisites: AHS 435 [Min Grade: C]
HIM 475. Electronic Health Records. 3 Hours.
Strategies for developing and implementing the framework and conceptual model of the electronic health record for enterprise-wide data collection, archiving, aggregation and reporting, and data security of health information for patient care.
Prerequisites: AHS 318 [Min Grade: C]

HIM 481. Issues in Health Information Management. 1-4 Hour.
A seminar that emphasizes management skills/tools used in HIM practice and highlights current developments in HIM. Emphasis on writing documents (e.g., memo, policy, team charter, teaching plan); emphasis on calculating productivity, FTEs and costs for alternative solutions to reduce backlog in a designated function; and emphasis on the HIM professional's role in advocacy for current national issues in HIM practice, such as privacy and security of health information and the personal health record.

HON-University Honors Program

Courses

HON 101. Interdisciplinary: English. 3 Hours.
Process and final product of expository, argummentative, and analytical essays in a variety of disciplines. Research and documentation required on most essays. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 102. Interdisciplinary: Chemistry. 3 Hours.
Fundamental facts, principles, theory, and applications of chemistry. Qualitative in nature; for non-science majors with no previous background in chemistry. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 103. Interdisciplinary: Psychology. 3 Hours.
Application of scientific method to behavior. Takes an interdisciplinary approach in exploring areas of psychology including learning, motivation, perception, psychological, comparative, personality, abnormal, social, clinical, child development, and individual differences. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 104. Interdisciplinary: Theology. 3 Hours.
Introduction to foundations of the major religions. An exploration of religion, its nature, warrant, and significance. God, evil, religious experience, faith, and reason. Takes an interdisciplinary approach to religion and religious practices. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 105. Interdisciplinary: Science. 3 Hours.
Survey of scientific methodologies in biology, chemistry and physics. Recent advances and topics in modern biology, chemistry examined from an interdisciplinary approach. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 106. Interdisciplinary: Anthropology. 3 Hours.
An interdisciplinary exploration of culture; similarities and differences among human groups. Interpretation of human fossil record; archaeological methods and theory used to reconstruct and interpret past. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 107. Interdisciplinary: Urban Studies. 3 Hours.
An interdisciplinary study of social and demographic characteristics of cities, structures of urban governments, intergovernmental relations, lifestyles, and electoral politics in metropolitan environments. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 108. Interdisciplinary: Music. 3 Hours.
Basic elements of music and music notation: rhythm, scales, keys, and chords. Physical and perceptual aspects of musical tones and numerical basis of scales, tuning, and musical instrument design. A variety of music styles are studied in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 109. Interdisciplinary: Business. 3 Hours.
Introduction to principles of business, international business, business ethics, and trading blocks. Not intended for Business majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 110. Participation in Honors. 1 Hour.
Student must participate in at least eight special events sponsored by the University Honors Program including special lectures, visiting speakers, workshops and field trips. Permission of instructor. Pass/Fail.

HON 111. Interdisciplinary: Philosophy. 3 Hours.
Introductory survey of philosophy, its nature, methods, and problems explored in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 112. Community Service. 1 Hour.
Student must have signed a contract and completed a minimum 20 hours community service in a designated, extended project and have attended meetings to discuss general issues related to community service. Permission of instructor. Pass/Fail.

HON 151. Interdisciplinary: Art and Art History. 3 Hours.
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of art materials and techniques. Not for Art majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 152. Interdisciplinary: Psychiatry and Behavioral Neurobiology. 3 Hours.
Introduction to major psychiatric disorders and knowledge gained about brain-behavior relationships from behavioral neurobiology. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 153. Interdisciplinary: Biology. 3 Hours.
Selected topics in contemporary biology for non-majors. Animal form and function, behavior, ecology, and evolution. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 154. Interdisciplinary: Literature. 3 Hours.
Short stories, novellas, poems, and plays with an emphasis on the techniques of each genre. American, British and Irish, and world literature from a variety of historical periods. Emphasis on writing and literary analysis while taking an interdisciplinary approach. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 155. Interdisciplinary: Physics. 3 Hours.
Introductory survey of physics. Matter, energy, light. Selective topics in modern physics. Basic laws of physics, modern theories of matter and the universe, cosmic history and evolution. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 156. Interdisciplinary: Law and Ethics. 3 Hours.
Interdisciplinary discussion of the nature and function of law and legal institutions. Ethics and morality in modern society. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 157. Interdisciplinary: Cognitive Science. 3 Hours.
Introduction to major issues in cognitive science drawing from cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 158. Interdisciplinary: Economics. 3 Hours.
Economic principles, economic analysis, trading blocks, examined in an interdisciplinary context. Not intended for Business majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 159. Interdisciplinary: Theatre. 3 Hours.
Understanding the theatre experience through class lectures, reading and writing assignments, demonstrations, and discussions. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 160. Interdisciplinary: Government. 3 Hours.
An introduction to the institutions and processes of American government in an interdisciplinary context. Exposure to political cultures and systems around the world. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 161. Interdisciplinary: History. 3 Hours.
An exploration of significant world historical developments from the beginning of the early modern era (approximately 1600 CE) to the present in an interdisciplinary context. Intellectual movements, political revolutions and nationalism, industrialization, cultural changes, and the relationship between Western and non-Western societies. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 162. Interdisciplinary: Mathematics. 3 Hours.
Mathematics is studied in an interdisciplinary context focusing on the development of quantitative reasoning skills, quantitative literacy, and deductive inference. Topics incorporate pre-calculus algebra, pre-calculus trigonometry, probability, descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 163. Interdisciplinary: Justice Sciences. 3 Hours.
Introduction to the criminal justice system. Examination of crime and delinquency in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 164. Interdisciplinary: Sociology. 3 Hours.
An interdisciplinary approach to human social life, its forms and consequences for everyday life. An exploration of social inequalities and differentiation by race, ethnicity, class, and gender. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 165. Interdisciplinary: Communications. 3 Hours.
Perspectives on the history of newspapers, books, magazines, radio, television, cinema, recording industry, and the Internet examined in an interdisciplinary context. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 166. Interdisciplinary: Film. 3 Hours.
An interdisciplinary analysis of film, and understanding of film as art form. Examination of editing, directing, and other aspects of film production. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 167. Interdisciplinary: Computer Science. 3 Hours.
Introduction to features of modern computing in an interdisciplinary context. Fundamentals of hardware, software, human-computer interfaces, networking, multi-media, databases, privacy and digital security. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 168. Interdisciplinary: Linguistics. 3 Hours.
An interdisciplinary approach to the scientific study of language. Principles underlying phonology, morphology, syntax and semantics. Relationships between language and culture, and language and mind. Psycholinguistics. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 169. Interdisciplinary: Foreign Languages & Literatures. 3 Hours.
An interdisciplinary approach to the exploration of the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 173. Interdisciplinary: Education. 3 Hours.
Interdisciplinary perspectives on current issues and problems in education, the role and value of diversity in education, and modern trends in effective pedagogy. This course is an option for freshmen students admitted to of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 174. Interdisciplinary: Engineering. 3 Hours.
An interdisciplinary introduction to profession of engineering, engineering design, and problem solving. Not for engineering majors. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 175. Interdisciplinary: Health Professions. 3 Hours.
An interdisciplinary introduction to current issues in health information management, health care management, medical technology, nuclear medicine technology, and respiratory therapy. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 176. Interdisciplinary: Nursing. 3 Hours.
An interdisciplinary approach to the practice of professional nursing as an evidence-based, goal-directed activity for assisting patients to achieve optimal health by meeting basic human needs, providing holistic care, and engaging in health promotion. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 177. Interdisciplinary: Medicine. 3 Hours.
Interdisciplinary perspectives on the history of medicine as well as the practice of modern medicine. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 178. Interdisciplinary: Public Health. 3 Hours.
Introduction to the scope of modern public health. Epidemiology. Epidemics and pandemics. Health behavior and occupational health and safety. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 179. Interdisciplinary: African American Studies. 3 Hours.
An interdisciplinary study of major theoretical, and critical discourses of Black Studies, and its emergence as a political/social movement and discipline. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 180. Interdisciplinary: Women's Studies. 3 Hours.
An interdisciplinary study of role of women in society through social, political, economic, philosophical, historical, and biological perspectives. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 181. Interdisciplinary: Neuroscience. 3 Hours.
An exploration of the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions. An examination of the molecular basis of nervous system disorders and diseases. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 182. Interdisciplinary: Nutrition Sciences. 3 Hours.
Introduction to principles of nutrition; metabolism and function of essential nutrients and their relation to growth and optimal functioning of the body; biosynthesis of vitamins; dietary recommendations to promote wellness and prevent chronic disease; human requirements for energy, amino acids, minerals, and vitamins; current human nutritional problems and obesity. This course is an option for freshmen in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 183. Interdisciplinary: Biomedical Engineering. 3 Hours.
Introduction to topics in biomedical engineering. Engineering solutions to problems in genomics, proteomics, and nanotechnology. Introduction to challenges in biomaterials and bioinstrumentation. Not for engineering majors. This course is an option for freshmen in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 184. Interdisciplinary: International Studies. 3 Hours.
An introductory survey of the problems and practices of global cooperation and conflict. Discussion of issues in international economics such as trading blocs, wealth distribution; issues in social justice and human rights; issues in international law and politics such as the United Nations. This course is an option for freshmen in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 185. Interdisciplinary: Natural Sciences. 3 Hours.
Examination and survey of scientific methodologies including biology, geology, physics, chemistry, and important developments in the natural sciences. Recent advances and topics in the natural sciences are examined from an interdisciplinary approach. This course is an option for freshmen students admitted to the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 186. Seminar: Independent Project. 3 Hours.
The University Honors Program student writes a two-page proposal describing the scope and outcomes of the proposed project to be conducted under the mentorship of an internal and external advisor. The project replaces a regular honors seminar. HON 200 is taken for a grade (A-F). Prerequisite: The proposal must be pre-approved by a majority of the Honors Council. Permission of instructor.

HON 201. Interdisciplinary: English. 3 Hours.
Process and final product of expository, argumentative, and analytical essays in a variety of disciplines. Research and documentation required on essays. Introduction to fundamentals of creative writing. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 202. Interdisciplinary: Chemistry. 3 Hours.
Covers fundamental concepts of organic chemistry and biochemistry studied in an interdisciplinary context. For non-science majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 203. Interdisciplinary: Psychology. 3 Hours.
Advanced application of scientific method to behavior. Areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences are studied in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 204. Interdisciplinary: Theology. 3 Hours.
An exploration of religion, its nature, warrant, and significance in an interdisciplinary context. God, evil, religious experience, faith, and reason. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 205. Interdisciplinary: Science. 3 Hours.
Exploration of recent developments in modern biology, chemistry, and physics in an interdisciplinary context. Basic physical laws and structures, cosmic history and evolution. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 206. Interdisciplinary: Anthropology. 3 Hours.
An interdisciplinary exploration of concept of culture; similarities and differences among human groups. Interpretation of human fossil record; archaeological methods and explorations of ancient civilizations. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 207. Interdisciplinary: Urban Studies. 3 Hours.
An interdisciplinary study of social and demographic characteristics of cities, structures of urban governments, intergovernmental relations, lifestyles, and electoral politics in metropolitan environments. Urban problems compared to rural and suburban problems. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 208. Interdisciplinary: Music. 3 Hours.
Basic elements of music and music notation: rhythm, scales, keys, and chords. Physical and perceptual nature of musical tones and numerical basis of scales, tuning, and musical instrument design. A variety of music styles are studied in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 209. Interdisciplinary: Business. 3 Hours.
Survey of business principles, international business, business ethics, and trading blocks in an interdisciplinary context. Business and government interactions. Not intended for Business majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 210. Participation in Honors. 1 Hour.
Student must participate in at least eight special events sponsored by the University Honors Program including special lectures, visiting speakers, workshops and field trips. Must have completed HON 110. Permission of instructor. Pass/Fail.

HON 211. Interdisciplinary: Philosophy. 3 Hours.
Introductory survey of philosophy, its nature, methods, and problems explored in an interdisciplinary context. Classic and contemporary readings. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 212. Community Service. 1 Hour.
Student must have signed a contract and completed a minimum 20 hours community service in a designated, extended project and have attended meetings to discuss general issues related to community service. Must have completed HON 112. Permission of instructor. Pass/Fail.

HON 213. Interdisciplinary: Art and Art History. 3 Hours.
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of the aesthetic experience. Various media, methods, subject matter, and vocabulary discussed in an interdisciplinary context. Not for Art majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 214. Interdisciplinary: Psychiatry and Behavioral Neurobiology. 3 Hours.
Major psychiatric disorders and topics in behavioral biology discussed in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 215. Interdisciplinary: Biology. 3 Hours.
Selected topics in contemporary biology discussed in an interdisciplinary context. Animal form and function, behavior, ecology, and evolution. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 216. Interdisciplinary: Literature. 3 Hours.
American, British and Irish, and world literature from a variety of historical periods studied in an interdisciplinary context. Emphasis on writing and literary analysis. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 217. Interdisciplinary: Law and Ethics. 3 Hours.
Interdisciplinary discussion of the nature and function of law and legal institutions. The Supreme Court and constitutional issues. Ethics and morality in modern society. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 218. Interdisciplinary: Cognitive Science. 3 Hours.
An introduction to the major issues in modern cognitive science. An interdisciplinary approach drawing from cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 258. Interdisciplinary: Economics. 3 Hours.
Economic principles, economic analysis, stock exchange, trading blocks and world trade examined in an interdisciplinary context. Not intended for Business majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 259. Interdisciplinary: Theatre. 3 Hours.
Understanding the theatre experience through class lectures, reading and writing assignments, demonstrations, and discussions. Writing is a significant component of the course. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 260. Interdisciplinary: Government. 3 Hours.
An introduction to the institutions and processes of American government in an interdisciplinary context. Exposure to political cultures and systems around the world. Transitions to democracy. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 261. Interdisciplinary: History. 3 Hours.
An interdisciplinary exploration of significant world historical developments from the beginning of the early modern era (approximately 1600 CE) to the present. Intellectual movements, political revolutions and nationalism, industrialization, cultural changes, and the relationship between Western and non-Western societies. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 262. Interdisciplinary: Mathematics. 3 Hours.
Mathematics is studied in an interdisciplinary context focusing on the development of quantitative reasoning skills, quantitative literacy, and deductive inference. Topics incorporate pre-calculus algebra, pre-calculus trigonometry, probability, descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 263. Interdisciplinary: Justice Sciences. 3 Hours.
Introduction to the criminal justice system (police, courts, and corrections). Examination of crime and delinquency in an interdisciplinary context. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 264. Interdisciplinary: Sociology. 3 Hours.
An interdisciplinary approach to human social life, its forms and consequences for everyday life. An exploration of selective topics related to social inequalities and differentiation by race, ethnicity, class, and gender. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 265. Interdisciplinary: Communications. 3 Hours.
An interdisciplinary approach to issues in the history of newspapers, books, magazines, radio, television, cinema, recording industry, and the Internet. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 266. Interdisciplinary: Film. 3 Hours.
An interdisciplinary analysis of film and its role in modern society. The understanding of film as art form. Examination of editing, directing, and other aspects of film production. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 267. Seminar: Tropical Ecology. 3 Hours.
Major tropical ecotypes; ecology of terrestrial, aquatic, and marine tropical organisms. Major portion conducted at tropical field station in Caribbean. Lecture and field trips (May session). Permission of instructors, University Honors Program Director, UAB Study Abroad Director and payment of all study abroad fees required to enroll. This course is equivalent to BY 267 Tropical Ecology, which will take place in the Bahamas.

HON 268. Seminar: Galapagos Ecology. 3 Hours.
An overview of the ecology of the Galapagos Island, with an emphasis on the ecology of terrestrial and marine organisms. Major portion of course conducted on the Galapagos Islands. Lecture & field trips. (May session) Permission of instructors, University Honors Program Director, UAB Study Abroad Director and payment of all study abroad fees required to enroll. This course is equivalent to BY 268-SA, which will take place in Galapagos Islands.

HON 269. Seminar: Rain Forest Ecology. 3 Hours.
Physical and environmental factors that structure rain forest, biodiversity of life, and interactions of its organisms. Prominent biota. Major portion of course taught at tropical field station in Costa Rica. Lecture and field trips. (May session). Permission of instructors, University Honors Program Director, UAB Study Abroad Director and payment of all study abroad fees required to enroll. This course is equivalent to BY 269-SA, which will take place in Costa Rica.

Prerequisites: BY 124 [Min Grade: D]

HON 270. Interdisciplinary: Computer Science. 3 Hours.
Perspectives on modern computing in an interdisciplinary context. Artificial intelligence. Fundamentals of hardware, software, human-computer interfaces, networking, multi-media, databases, privacy and digital security. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 271. Interdisciplinary: Linguistics. 3 Hours.
An interdisciplinary approach to the scientific study of language. Principles underlying phonology, morphology, syntax and semantics. Language acquisition, production, and perception. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 272. Interdisciplinary: Foreign Languages. 3 Hours.
An interdisciplinary approach to the exploration of the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 273. Interdisciplinary: Education. 3 Hours.
Interdisciplinary perspectives on current issues and problems in education, the role and value of diversity in education, and modern trends in effective pedagogy. Issues in cognitive development. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 274. Interdisciplinary: Engineering. 3 Hours.
An interdisciplinary introduction to the profession of engineering, engineering design, and problem solving. Examination of significant engineering feats in history. Issues facing modern engineering. Not for engineering majors. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 275. Interdisciplinary: Health Professions. 3 Hours.
An interdisciplinary introduction to current issues in health information management, health care management, and medical technology. Selected topics in the clinical and diagnostic sciences, nutrition, nuclear medicine technology, and rehabilitation sciences. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 276. Interdisciplinary: Nursing. 3 Hours.
An interdisciplinary approach to the practice of professional nursing as an evidence-based, goal-directed activity for assisting patients to achieve optimal health by meeting basic human needs, providing holistic care, and engaging in health promotion. Selected topics such as health literacy, critical care, etc. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 277. Interdisciplinary: Medicine. 3 Hours.
Interdisciplinary perspectives on the history of medicine as well as the practice of modern medicine. Selected topics in medical technology and bioethical implications. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 278. Interdisciplinary: Public Health. 3 Hours.
Introduction to the scope of modern public health. Interdisciplinary perspectives on epidemiology, Disease transmission, epidemics and pandemics. Health behavior and occupational health and safety. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 279. Interdisciplinary: African American Studies. 3 Hours.
An interdisciplinary study of major theoretical and critical discourses of Black Studies, and its emergence as a political/social movement and discipline. Selective topics in History, Religion, Social Organization, Politics, Economics, Creative Production, and Psychology. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 280. Interdisciplinary: Women’s Studies. 3 Hours.
An interdisciplinary study of the role of women in society through social, political, economic, philosophical, historical, and biological perspectives. Theories of women’s studies. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 281. Interdisciplinary: Neuroscience. 3 Hours.
Overview of the development, structure, and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions. An examination of the molecular basis of nervous system disorders and diseases. Interdisciplinary coverage that spans the anatomy, evolution, development, genetics, biochemistry, cell biology, physiology, electrophysiology, pharmacology, circuitry, and pathology of the nervous system. This course is an option for sophomore students in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 282. Interdisciplinary: Nutrition Sciences. 3 Hours.
Overview of principles of nutrition; metabolic disorders; dietary deficiencies and chronic disease; metabolism and function of essential nutrients and their relationship to growth and optimal functioning of the body; biosynthesis of vitamins; dietary recommendations to promote wellness; human requirements for energy, amino acids, minerals, and vitamins; current human nutritional problems and obesity. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 283. Interdisciplinary: Biomedical Engineering. 3 Hours.
Overview of field of biomedical engineering. Illustrations of engineering solutions to problems in genomics, proteomics, and nanotechnology. Introduction to challenges in biomaterials and bioinstrumentation. Not for engineering majors. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 284. Interdisciplinary: International Studies. 3 Hours.
An introductory survey of the problems and practices of global cooperation and conflict. Discussion of issues in international economics such as trading blocs, wealth distribution; issues in social justice and human rights; issues in international law and politics such as the United Nations. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 285. Interdisciplinary: Environmental Science. 3 Hours.
Environmental issues related to population growth, environmental health sciences, climate change, water and energy resources, pollution, waste disposal, air/water pollution, plant and animal extinctions, food resources, and sustainability. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 286. Interdisciplinary: Environmental Science. 3 Hours.
Environmental issues related to population growth, environmental health sciences, climate change, water and energy resources, pollution, waste disposal, air/water pollution, plant and animal extinctions, food resources, and sustainability. This course is an option for sophomores in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 287. Interdisciplinary: English. 3 Hours.
Process and final product of expository, argumentative, and analytical essays in a variety of disciplines. Research and documentation required on most essays. Emphasis on developing theses and arguments with textual support. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.
HON 302. Interdisciplinary: Chemistry. 3 Hours.
Covers fundamental concepts of organic chemistry and biochemistry in an interdisciplinary context. For non-science majors. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum. Writing assignments structured to build on scientific reasoning.

HON 303. Interdisciplinary: Psychology. 3 Hours.
Advanced application of scientific method to behavior. In-depth analysis of areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 304. Interdisciplinary: Theology. 3 Hours.
An in-depth exploration of the nature of religion and its role in society in an interdisciplinary context. Comparative religion. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 305. Interdisciplinary: Science. 3 Hours.
Selected topics in contemporary biology, chemistry, and physics. Takes an interdisciplinary approach with a strong emphasis on understanding at the systems level. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 310. Participation in Honors. 1 Hour.
Student must participate in at least eight special events sponsored by the University Honors Program including special lectures, visiting speakers, workshops and field trips. Must have completed HON 210. Permission of instructor. Pass/Fail.

HON 312. Community Service. 1 Hour.
Student must have signed a contract and completed a minimum 20 hours community service in a designated, extended project and have attended meetings to discuss general issues related to community service. Must have completed HON 212. Permission of instructor. Pass/Fail.

HON 313. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature of religion and its role in culture and society; God, evil, religious experience, faith, and reason; comparative religion; and religious practices. See Class Schedule for specific topic.

HON 314. Seminar: Medicine. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of medicine, the practice of modern medicine, narrative medicine, medical instrumentation and surgical techniques. See Class Schedule for specific topic.

HON 315. Seminar: Film. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, and independent filmmaking. See Class Schedule for specific.

HON 316. Seminar: Ethnographic Filmmaking. 6 Hours.
Students will document and analyze aspects of human social life using film and video. They will develop an understanding of the visual syntax and narrative structure of successful ethnographic and documentary films through discussion and criticism in the classroom as well as through short film projects of their own. Permission of instructor.

HON 317. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 318. Seminar: Engineering. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 319. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 320. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 321. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.

HON 322. Seminar: Law. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.
HON 323. Seminar: Sociology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human social life, social inequalities and differentiation by race, ethnicity, class, and gender. See Class Schedule for specific topic.

HON 324. Seminar: Foreign Languages and Literatures. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics related to the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. See Class Schedule for specific topic.

HON 325. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 326. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 327. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of science and technology; the frontiers of modern science and technology. See Class Schedule for specific topic.

HON 328. Seminar: Mathematics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in history of mathematics, quantitative reasoning, deductive inference, probability, and descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. See Class Schedule for specific topic.

HON 329. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 330. Seminar: Physics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory. See Class Schedule for specific topic.

HON 331. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in curriculum development and instruction, diversity and educational disparities, aptitudes and abilities, and pedagogical techniques. See Class Schedule for specific topic.

HON 332. Seminar: Biology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of biology, interdisciplinary issues, and important new developments in the biological sciences. See Class Schedule for specific topic.

HON 333. Seminar: Geology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human social life, social inequalities and differentiation by race, ethnicity, class, and gender. See Class Schedule for specific topic.

HON 334. Seminar: Communication Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human communication, interpersonal relationships, nonverbal communication, public relations, and mass media. See Class Schedule for specific topic.

HON 335. Seminar: Library Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: the historical role of the library in culture and society; how libraries play a role in society as disseminators, defenders and preservers of knowledge; issues affecting intellectual freedom; the effects of digital publishing on scholarship; and the evolving structure and function of libraries. See Class Schedule for specific topic.

HON 336. Seminar: Government and Public Service. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the institutions and process of American government, comparative politics, political theory, and contemporary political issues. See Class Schedule for specific topic.
HON 337. Seminar: Urban Affairs. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the policy process at local, state, and federal levels of government. See Class Schedule for specific topic.

HON 338. Seminar: Theatre. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the theatre experience; the history of theatre; and theatre and society. See Class Schedule for specific topic.

HON 339. Seminar: Music. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in music appreciation, history of music, music and mathematics, music perception, and musical genres. See Class Schedule for specific topic.

HON 340. Seminar: Nursing. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the practice of professional nursing, holistic care, health promotion, health literacy, and critical care. See Class Schedule for specific topic.

HON 341. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 342. Seminar: Medicine. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of medicine, the practice of modern medicine, narrative medicine, medical instrumentation and surgical techniques, and issues in bioethics. See Class Schedule for specific topic.

HON 343. Seminar: Medicine. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in information technology, fundamentals of hardware and software, and human-computer interfaces. See Class Schedule for specific topic.

HON 344. Seminar: Computer and Information Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in information technology, fundamentals of hardware and software, and human-computer interfaces. See Class Schedule for specific topic.

HON 345. Seminar: Justice Sciences. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 346. Seminar: Health Related Sciences. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in clinical and diagnostic sciences, nutrition, nuclear medicine technology, occupational and physical therapy, and rehabilitation sciences. See Class Schedule for specific topic.

HON 347. Seminar: Accounting. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in accounting and taxation, management, information systems, business ethics, marketing, and industrial distribution. See Class Schedule for specific topic.

HON 348. Seminar: Business. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in accounting and taxation, management, information systems, business ethics, marketing, and industrial distribution. See Class Schedule for specific topic.

HON 349. Seminar: Economics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in macroeconomics and microeconomics, labor economics, behavioral economics, law and banking, and international trade. See Class Schedule for specific topic.

HON 350. Seminar: Womens Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the role of women in society through social, political, economic, philosophical, historical, and biological perspectives. See Class Schedule for specific topic.
HON 351. Interdisciplinary: Art and Art History. 3 Hours.
Exploration of visual culture in an interdisciplinary context. The aesthetic experience. Various media, methods, subject matter, and vocabulary. Not for Art majors. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 353. Interdisciplinary: Biology. 3 Hours.
An in-depth study of selected topics in contemporary biology discussed in an interdisciplinary context. From microscopic to macroscopic. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 354. Interdisciplinary: Literature. 3 Hours.
Close analysis of a selection of books from American, British and Irish, and world literature in an interdisciplinary context. Emphasis on developing themes for writing literary analyses. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 355. Interdisciplinary: Physics. 3 Hours.
Survey of selective topics in modern physics discussed in an interdisciplinary context. Basic laws of physics, modern theories of matter and the universe, cosmic history and evolution. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 356. Interdisciplinary: Government. 3 Hours.
In-depth analysis on selective issues regarding the institutions and processes of American government in an interdisciplinary context. Exposure to political cultures and systems around the world. Transitions to democracy. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 357. Interdisciplinary: Mathematics. 3 Hours.
Mathematics is studied in an interdisciplinary context focusing on the development of quantitative reasoning skills, quantitative literacy, and deductive inference. Topics incorporate pre-calculus algebra, pre-calculus trigonometry, probability, descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 358. Interdisciplinary: Justice Science. 3 Hours.
Introduction to the criminal justice system (police, courts, and corrections). Examination of crime and delinquency in an interdisciplinary context. Analyses of rends in crime statistics. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 360. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of science and technology; the frontiers of modern science and technology.

HON 361. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of science and technology; the frontiers of modern science and technology.

HON 362. Seminar: Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of science and technology; the frontiers of modern science and technology.
HON 387. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature of religion and its role in culture and society; God, evil, religious experience, faith, and reason; comparative religion; and religious practices. See Class Schedule for specific topic.

HON 388. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature of religion and its role in culture and society; God, evil, religious experience, faith, and reason; comparative religion; and religious practices. See Class Schedule for specific topic.

HON 389. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature of religion and its role in culture and society; God, evil, religious experience, faith, and reason; comparative religion; and religious practices. See Class Schedule for specific topic.

HON 390. Seminar: Theology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature of religion and its role in culture and society; God, evil, religious experience, faith, and reason; comparative religion; and religious practices. See Class Schedule for specific topic.

HON 391. Seminar: Urban Affairs. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the policy process at local, state, and federal levels of government. See Class Schedule for specific topic.

HON 392. Seminar: Special Topics. 3 Hours.
This course is a seminar offered by a visiting scholar. The topic and content of the course will be in the area of expertise of the scholar in residence. See Class Schedule for specific topic.

HON 393. Interdisciplinary: Arts and Humanities. 3 Hours.
An in-depth interdisciplinary study of major topics and movements within the fields of art, film, literature, music, philosophy, photography, and theatre. This course is an option for third and fourth year Teaching Assistants in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 394. Interdisciplinary: Social and Behavioral Sciences. 3 Hours.
An in-depth interdisciplinary study of major topics and movements within the fields of anthropology, history, political science, psychology, and sociology. This course is an option for third and fourth year Teaching Assistants in the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 395. Interdisciplinary: Natural Sciences. 3 Hours.
Examination and survey of scientific methodologies including biology, geology, physics, chemistry, and important developments in the natural sciences. Recent advances and topics in the natural sciences are examined from an interdisciplinary approach. This course is an option in the curriculum of the University Honors Program, an interdisciplinary arts and sciences curriculum that replaces the core curriculum.

HON 397. Seminar: Physics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory.

HON 399. Honors Research. 1-3 Hour.
This research practicum provides students in the University Honors Program an opportunity to receive academic credit for conducting supervised research with a faculty mentor. Students are required to work 3 hours a week. The practicum does not replace any component of the University Honors curriculum. HON 399 is taken for a grade (A-F). Permission of instructor. (1-3 hrs.).

HON 400. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: reading, writing, literary analysis, poetry, basic construction, methods and/or grammar. See Class Schedule for specific topic.

HON 410. Seminar: Social Work. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in empirically based social work practice, history of social welfare, family care in cross-cultural perspectives, and social welfare policy analysis. See Class Schedule for specific topic.

HON 412. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 413. Seminar: African American Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.
HON 414. Seminar: Women's Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core areas of African American Studies such as history, religion, social organization, politics, economics, creative production, and psychology. See Class Schedule for specific topic.

HON 415. Seminar: African American Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core areas of African American Studies such as history, religion, social organization, politics, economics, creative production, and psychology. See Class Schedule for specific topic.

HON 416. Seminar: Literature. 3 Hours.
In this creative writing course, groups of writers who are joined together by aesthetic approach or political beliefs are studied. Students examine the different sub-genres, styles, and forms, and analyze how authors do what they do and learn how to apply what they learn to their own creative work. Weekly writing assignments and student workshops are designed to produce better writers and also better critical readers of others work. Literary journals are reviewed with an eye toward publication and engagement with the broader world of contemporary poetry, fiction and creative nonfiction. See Class Schedule for specific topic.

HON 417. Seminar: Creative Writing. 3 Hours.
In this creative writing course, groups of writers who are joined together by aesthetic approach or political beliefs are studied. Students examine the different sub-genres, styles, and forms, and analyze how authors do what they do and learn how to apply what they learn to their own creative work. Weekly writing assignments and student workshops are designed to produce better writers and also better critical readers of others work. Literary journals are reviewed with an eye toward publication and engagement with the broader world of contemporary poetry, fiction and creative nonfiction. See Class Schedule for specific topic.

HON 418. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 419. Seminar: Mathematics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in history of mathematics, quantitative reasoning, deductive inference, probability, and descriptive and inferential statistics in the exploration of key mathematical ideas and concepts within the framework of applied math and physics.

HON 420. Seminar: Sociology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human social life, social inequalities and differentiation by race, ethnicity, class, and gender. See Class Schedule for specific topic.

HON 421. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 422. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 423. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 424. Seminar: Art & Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in ancient and medieval art, Renaissance art, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 425. Seminar: Gerontology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the biology of aging, psychology of aging, politics of aging, memory disorders, geriatric medicine, death and dying. See Class Schedule for specific topic.

HON 426. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 427. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.
HON 428. Seminar: Biology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of biology, interdisciplinary issues, and important new developments in the biological sciences. See Class Schedule for specific topic.

HON 429. Seminar: Biology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of biology, interdisciplinary issues, and important new developments in the biological sciences. See Class Schedule for specific topic.

HON 430. Seminar: Music. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in music appreciation, history of music, music and mathematics, music perception, and musical genres. See Class Schedule for specific topic.

HON 431. Seminar: Film. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, and independent filmmaking. See Class Schedule for specific topic.

HON 432. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 433. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 434. Seminar: Cognitive Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. See Class Schedule for specific topic.

HON 435. Seminar: Cognitive Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. See Class Schedule for specific topic.

HON 436. Seminar: Cognitive Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in cognitive psychology, cognitive neuroscience, computer science, philosophy, linguistics, behavioral neurology, and cultural anthropology. See Class Schedule for specific topic.

HON 437. Seminar: Computer and Information Sciences. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in information technology, fundamentals of hardware and software, and human-computer interfaces. See Class Schedule for specific topic.

HON 438. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in curriculum development and instruction, diversity and educational disparities, aptitudes and abilities, and pedagogical techniques. See Class Schedule for specific topic.

HON 439. Seminar: English. 3 Hours.
This course is a recurring seminar that is designed to facilitate in the development and production of the University Honors Programs publication(s) and newsletter(s). The course will provide students with up-to-date information about the printing and publishing industry. It will also give students hands-on experience by developing publication(s) and/or newsletter(s) in class throughout the semester. At least one newsletter is issued semi-annually to students, alumni, and friends of the University Honors Program. Concepts discussed will include writing, proofreading, copy editing, photography, layout and design, printing, publishing, packaging, and distribution. Students may be expected to gather articles and artwork related to the University Honors Program, as well as write, edit, and proofread those articles.

HON 440. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.
HON 441. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in curriculum development and instruction, diversity and educational disparities, aptitudes and abilities, and pedagogical techniques. See Class Schedule for specific topic.

HON 442. Seminar: Engineering. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in biomedical engineering, tissue generation, nanotechnology, and bioinstrumentation, bio-imaging, and biomaterials, civil and environmental engineering. See Class Schedule for specific topic.

HON 443. Seminar: Engineering. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 444. Seminar: Environmental Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 445. Seminar: Environmental Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 446. Seminar: Government. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 447. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 448. Seminar: Education. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the problems and practice of global cooperation and conflict, global power, wealth, and social justice. See Class Schedule for specific topic.

HON 449. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 450. Seminar: International Studies. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the problems and practice of global cooperation and conflict, global power, wealth, and social justice. See Class Schedule for specific topic.

HON 451. Seminar: Humanities. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in humanism, philosophy, and literature. See Class Schedule for specific topic.

HON 452. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the institutions and process of American government, comparative politics, political theory, and contemporary political issues. See Class Schedule for specific topic.

HON 453. Seminar: Physics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in modern physics, astrophysics and cosmic history, modern theories of matter, and quantum theory. See Class Schedule for specific topic.

HON 454. Seminar: Environmental Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 455. Seminar: Environmental Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in sustainability, Green technology, air/water pollution, environmental engineering, waste management, and geology. See Class Schedule for specific topic.

HON 456. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 457. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 458. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.
HON 460. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 461. Seminar: Justice Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the criminal justice system, crime and delinquency, trends in crime statistics, forensics, privacy, cybercrime, and corrections. See Class Schedule for specific topic.

HON 462. Seminar: Law. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.

HON 463. Seminar: Law. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the nature and function of law and legal institutions. The US Constitution. Decisions of the US Supreme Court. International law. Ethics and morality in modern society. See Class Schedule for specific topic.

HON 464. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 465. Seminar: Literature. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in books, short stories, novellas, poems, and plays from variety of historical periods and cultures. See Class Schedule for specific topic.

HON 466. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 467. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 468. Seminar: Neuroscience. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the development, structure and function of the nervous system, with a special focus on the brain and its role in behavior and cognitive functions; the molecular basis of nervous system disorders and diseases. See Class Schedule for specific topic.

HON 469. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 470. Seminar: Chemistry. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in organic chemistry and biochemistry. See Class Schedule for specific topic.

HON 471. Seminar: Nursing. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the practice of professional nursing, holistic care, health promotion, health literacy, and critical care. See Class Schedule for specific topic.

HON 472. Seminar: Nursing. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the practice of professional nursing, holistic care, health promotion, health literacy, and critical care. See Class Schedule for specific topic.

HON 473. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.
HON 474. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 475. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 476. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. See Class Schedule for specific topic.

HON 477. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 478. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 479. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 480. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 474. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 475. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 476. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 477. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 478. Seminar: Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 479. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 480. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 481. Seminar: Political Science. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in American government, political cultures and institutions of political systems around the world, political theory, political economy, and contemporary political issues. See Class Schedule for specific topic.

HON 482. Seminar: Art and Art History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, African and Asian art, modern art, two- and three-dimensional design, graphics, and photography. See Class Schedule for specific topic.

HON 483. Seminar: Government. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the institutions and process of American government, comparative politics, political theory, and contemporary political issues. See Class Schedule for specific topic.

HON 484. Seminar: Economics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in macroeconomics and microeconomics, labor economics, behavioral economics, law and banking, and international trade. See Class Schedule for specific topic.

HON 485. Seminar: Film. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the history of film, the documentary tradition, and independent filmmaking. See Class Schedule for specific topic.

HON 486. Seminar: City as Text. 3 Hours.
City as Text® is a pedagogy developed by the National Collegiate Honors Council, the umbrella organization for all honors programs and colleges in the United States. This experiential learning course allows students to explore a community and obtain first hand knowledge of patterns in housing, commercial development, traffic flow, community activities. Students explore architecture, landscaping, social gatherings, signage as well as talk to residents of the community. Students reflect on and write about their experiences in the community and reflect on their prior expectations before experiencing the community.
HON 487. Seminar: Directed Research. 4 Hours.
This course offers an Oxford tutorial option where the student engages in an in-depth analysis of a specific research topic. The student meets with his/her mentor twice a week to discuss and analyze primary source papers.

HON 488. Seminar: Business. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in accounting and taxation, management, information systems, business ethics, marketing, and industrial distribution. See Class Schedule for specific topic.

HON 489. Seminar: English. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in creative writing; poetry; expository, argumentative, and analytical essays in a variety of disciplines. See Class Schedule for specific topic.

HON 490. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 491. Seminar: Psychology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in brain-behavior relationships, mental illness, cognitive science and cognitive neuroscience, learning and memory, human sexuality, personality, cross cultural issues, and human development. See Class Schedule for specific topic.

HON 492. Seminar: Communications. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human communication, interpersonal relationships, nonverbal communication, public relations, and mass media. See Class Schedule for specific topic.

HON 493. Seminar: Anthropology. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include core topics in cultural anthropology and physical anthropology, archaeology, and linguistics. See Class Schedule for specific topic.

HON 494. Seminar: Communications. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in human communication, interpersonal relationships, nonverbal communication, public relations, and mass media. See Class Schedule for specific topic.

HON 495. Seminar: History. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in the evolution of religious, political, social, military and economic structures and relationships in Western and non-Western societies. See Class Schedule for specific topic.

HON 496. Seminar: Public Health. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in epidemiology; disease transmission; epidemics and pandemics; health behavior, occupational health and safety; health care administration, and health care policy. See Class Schedule for specific topic.

HON 497. Seminar: Public Health. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in epidemiology; disease transmission; epidemics and pandemics; health behavior, occupational health and safety; health care administration, and health care policy. See Class Schedule for specific topic.

HON 498. Seminar: Public Health. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in epidemiology; disease transmission; epidemics and pandemics; health behavior, occupational health and safety; health care administration, and health care policy. See Class Schedule for specific topic.

HON 499. Seminar: Economics. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be covered in a regular departmental course or which may be treated in another course but only at an introductory level. Topics may include: special topics in macroeconomics and microeconomics, labor economics, behavioral economics, law and banking, and international trade. See Class Schedule for specific topic.

HPE-Health & Physical Educ Courses
Courses

HPE 200. Quality of Life. 2 Hours.
Total health; effects of lifestyle on total health. Decision-making skills to enable health enhancing choices and engage in health enhancing activities to improve and maintain health status. For education majors only.

HPE 301. Teaching Health Education and Physical Education in Elementary Schools. 3 Hours.
For classroom teachers. Communicating and working with physical education specialists, selecting developmentally appropriate activities, and integrating movement activities and concepts into classroom subjects. Background information and skills to implement health education in grades K-5.
Prerequisites: HE 141 [Min Grade: C] or HPE 200 [Min Grade: C] or HE 222 [Min Grade: C]

HRP-Health Related Professions

Courses

HRP 101. Experience the Univ Transition. 2 Hours.
Structured introduction to the college experience for entering freshmen with health professions majors.

HRP 105. Business Principles for Health and Life Sciences. 3 Hours.
Basic leadership concepts will be covered with special emphasis on oral and written communication, planning and goal setting, team building, decision-making and problem solving.

HRP 300. Survey of Health Professions. 2 Hours.
A survey of undergraduate and graduate health professions that provide patient care and other services in the health care delivery system. Designed to assist undergraduate students in career investigation.

HRP 401. Honors Seminar I. 1 Hour.
Introduction to leadership principles. Skills development in public speaking and presentations. Skills development in information searching, literature review and writing techniques.

HRP 402. Honors Seminar II. 1 Hour.
A continuation of HPR 401 with an emphasis on advanced leadership principles. Skills development in information critiquing and proposal writing and presentation techniques.

HRP 410. Honors Project. 1-3 Hour.
Development and completion of a scholarly project for presentation and publication under the direction of a faculty mentor. Two to four terms required for a minimum accumulation of 4 semester hours.

HUM-Humanities

Courses

HUM 120. Introductory Humanities Seminar. 3 Hours.
Special topics to introduce students to the study of the humanities.

HUM 160. First Year Experience in HUM. 1 Hour.
The objective of this course is to introduce incoming freshmen to an education in the humanities in context of the university. It is meant to help prepare students for a successful collegiate career in the study of the humanities.

HY-History Courses

Courses

HY 101. Western Civilization I. 3 Hours.
This course examines the diverse cultures which are included in what is commonly referred to as the West. Students develop an understanding of the evolution of religious, political, social, military and economic structures and relationships in Europe and the Middle East up to 1600. Students develop an appreciation of how individuals have influenced and been influenced by time and place. Ethics and Civic Responsibility are significant components to this course. This course meets the Core Curriculum requirements for Area IV: History.

HY 102. Western Civilization II. 3 Hours.
This course examines developments in the Western World since 1600. Since for most of this period, European culture dominated the world the course will also examine interactions between the West and non-European cultures. The course focuses on political, economic, social and cultural developments and stresses change and continuity over time as well as the various ideas and debates which have marked the modern West. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: History.

HY 104. World History to 1600. 3 Hours.
This course is designed to provide students with an understanding of the development of major world civilizations from pre history to the early modern era (ca. 1600 CE). The principal characteristics of these civilizations such as political development, social structure, gender relations, religious beliefs and philosophies, will be examined. The ultimate goal is for students to see the world around them with an increased understanding and appreciation for the societies, traditions, and ideas that existed in the past and in many cases still exist and influence us today. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: History.

HY 105. World History 1600 to the Present. 3 Hours.
This course will examine many significant world historical developments from the beginning of the early modern era (approximately 1600 CE) to the present. These historical developments include: intellectual movements, political revolutions and nationalism, industrialization, cultural changes, and the relationship between Western and non-Western societies. The ultimate goal of this course is for students to perceive the world around them with an increased understanding and appreciation for the diverse societies, traditions, and ideas that existed in the past and in many cases still exist and influence us today. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: History.

HY 120. The United States To 1877. 3 Hours.
This course provides an introduction to some of the main political, social, cultural, and economic developments in American history from the era of exploration and colonial settlement through the end of the Civil War. Central themes of the course will include the cross-cultural encounters (and clashes) in the Americas between various European and native peoples; the spectacular growth of European settlements in North America; the creation (always contested) of an American national identity; the emergence of a market economy and the question of American ideas of success and happiness. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: History.
HY 121. The United States Since 1877. 3 Hours.
This course assists students in gaining a sophisticated understanding of the development of modern America - its politics, economics and social fabric together with how these have helped shape its foreign involvement. In the process, this course helps students understand the big idea of "change over time" and how all people face the choice of using change to help themselves and others - or not do this with resultant consequences. Finally, this course offers "lessons" out of our past about civic engagement, cultural diversity, and emerging globalism - "values" for productive citizenship on the contemporary scene. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: History.

HY 201. Economic History of the United States. 3 Hours.
Economic developments of U.S. from colonial times to present, focusing on business organization, technology and innovation.

HY 202. Reacting to the Past. 3 Hours.
"Reacting to the Past" is an award-winning pedagogy involving complex, collaborative role-playing games in which students seek to attain "victory objectives" while grappling with central tests in the history of ideas. The class will conduct several Reacting games that will allow students to explore key moments in intellectual and cultural history.

HY 203. History of American Technology. 3 Hours.
History of civilization of new technology in the United States emphasizing role of inventors and engineers.

HY 206. Introduction to Film and History. 3 Hours.
This course will examine fiction and non-fiction films as socially significant documents. Students will receive an introduction to the techniques of film analysis in the class.

HY 207. The American Film. 3 Hours.
Creation and development of motion pictures in the United States, including how films are made, American film industry, and impact of Hollywood on American culture.

HY 208. Women in Film. 3 Hours.
This course will provide a history of women in film, focusing on both women working in the film industry and the representation of women on screen. The course will focus on American film history, 1930's Hollywood to the present.

HY 210. History of American Medicine. 3 Hours.
Survey of patterns and trends in American medicine.

HY 214. Roman Republic. 3 Hours.
Survey of Roman history, society, and culture from the founding of the city of Rome in 753 BCE to the death of Julius Caesar in 44 BCE. Course covers the conquest of Italy, the Punic wars, and the conquest of the Hellenistic kingdoms. Emphasis on the impact of military success on the lifestyle and culture of the Roman people.

HY 217. History of Ancient Greece. 3 Hours.
Ancient Greece from prehistory to Alexander and the Hellenistic age.

HY 218. History of the Roman Empire. 3 Hours.
Survey of Roman history, society, and culture from the death of Julius Caesar in 44 BCE to the reign of Constantine in the early fourth century CE, with an emphasis on how the Roman empire ruled.

HY 219. Late Antiquity and Early Middle Ages. 3 Hours.
This course explores the transition from the Classical Greco-Roman Mediterranean world to the Middle Ages. It begins with the conversion of the Roman Empire to Christianity. Then it explores the collapse of the Western Roman Empire and the continuation of the Eastern Empire (known to historians as the Byzantine Empire). It places Mohammad and the rise of Islam in its historical context and explores the impact of the early Islamic conquests. The course will finish around the year 800 with the reign of Charlemagne in the West and Islamic Abbasid Dynasty ruling in Baghdad.

HY 223. African-American History to 1865. 3 Hours.
Ancient African civilizations and their demise, the slave trade and slavery in New World to the Civil War.

HY 224. African-American History Since 1865. 3 Hours.
Survey of late 19th century to present African American history.

HY 225. History of Alabama. 3 Hours.
Social, economic, and political survey of state from prehistory to present.

HY 226. History and Development of Birmingham. 3 Hours.
Social, economic, and political survey of the Birmingham area.

HY 227. Technology and Society. 3 Hours.
Relationship of machines and people in modern industrial society. Topics from recent American history and from contemporary problems.

HY 228. Southern Industrial History. 3 Hours.
Provides an overview of the major social, economic, and political developments behind the numerous attempts to industrialize the South from the post Civil War period to the present. Attention will be paid to Birmingham's Industrial District, the impact of World War I and World War II on Southern Industry, Labor Music, Women in Industry, Organized Labor and Unions, as well as the impact of the Space and Automobile Industry on the Modern South.

HY 230. Middle East 550 BCE to 1453 CE. 3 Hours.
Survey course on the history of the Middle East from the rise of the Persian Empire to the Ottoman conquest of Constantinople. Course covers the Persian Empire, Alexander the Great's conquests, Rome in the Middle East, the early Islamic Conquests, and the impact of the Crusades. The development of Judaism, Christianity, and Islam are emphasized.

HY 234. The World Since 1945. 3 Hours.
Events and trends from the end of the Second World War to the present, emphasizing the origins of the Cold War, decolonization, Europe integration, globalization, the rise of China, India and Japan, the revolutions in Eastern Europe in 1989 and the collapse of communism in the Soviet Union, the third wave of democratization, Islamic fundamentalism, 9/11, and the international financial crisis of 2008-2009.

HY 235. War in the Modern World. 3 Hours.
American military history from colonial times to present, including impact of Western ideas and technology on national defense policy.
HY 236. Europe Since 1945. 3 Hours.
After the Nazi catastrophe, what was to be the future of Europe? After sketching the context of unparalleled death and destruction, this course focuses on European reconstruction on both sides of the Iron Curtain. While contrasting Eastern and Western regimes, course will also seek to compare postwar recovery plans, cultural aesthetics, and shared legacies borne out of the experience of World War II. Strong emphasis is given to questions of memory and national identity, the history of European integration in the West, and socialist interdependence in the East. After 1989, course will focus on the expansion of the European Union, alongside transnational cultural phenomena such as European soccer, environmentalism, spaces of memory, and the loaded question of Europe’s “boundaries” in the east and southeast.

HY 237. Eastern Europe 1600-1918. 3 Hours.
Before WWI, Eastern Europe consisted of a patchwork of ethnic groups ruled by four empires, which were ultimately destroyed with the rise of nationalism. This course explores this lost world of Eastern Europe in the Age of Empire and attends to four conceptual areas which dominated it: the concept and practice of Empire; the genesis, development, and triumph of nationalism; the contribution of the region’s diverse Jewish population; and questions surrounding the ultimate downfall of this world. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 238. Eastern Europe 1914-Present. 3 Hours.
This course traces drastic transformative processes which remade Eastern Europe during the violent twentieth century, including: nationalism, ethnic cleansing, genocide, the Holocaust, communism, the Cold War, and European integration. Virulent nationalism, Nazi atrocities, and the vicious revenge they inspired decimated the multiethnic world that had come before and forged ethnically homogenous nation-states with rigid frontiers. With previous understandings of property rights, moral responsibility, and neighborliness undermined, and with Soviet armies occupying the ruins that remained, communists and their unwitting nationalist allies found fertile ground for the establishment of command economies, which repressed the traumatized survivors of the Second World War and their descendants until 1989. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 239. The Holocaust. 3 Hours.
On the basis of extensive reading, this course introduces students to the central problems surrounding the Nazi genocide of European Jewry as well as the postwar memory debates which have resulted from it. We will examine Jewish culture, contributions, and integration in pre-1932 Europe, as well as after the Holocaust, and conclude by exploring the contemporary influence of the Holocaust, such as in Israeli national identity. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 245. Introduction to Latin American History. 3 Hours.
A sweeping survey of Latin American history from colonial times through the contemporary era focusing on forces and patterns that have shaped the region as a whole, making it broadly distinct from our own “Anglo” America.

HY 247. Indians, Spaniards & Creoles. 3 Hours.
A history of Latin American society and civilization in the formative era of Iberian (Spanish & Portuguese) colonialism, 1492 through c. 1810. The course looks at major precolonial civilizations; the Spanish Conquest; and nature of Spanish-Indian relations. It stresses the impact of Iberian values, norms, and institutions, i.e. Church and State, on the emergence of unique new hybrid or Creole societies by the end of the period.

HY 248. Modern Latin America. 3 Hours.
A survey of Latin American history from c. 1810 to the present. Covers the vital era of political independence and, through “case studies” of major countries, examines key trends and developments that have shaped the region and its 21 nations since then. Major topics include 19th century nation-state formation and economic modernization; 20th century urbanization, nationalism, social revolution, military dictatorships, and democratization, including the rise of influential women’s (and feminist) movements.

HY 251. Nineteenth-Century Europe. 3 Hours.
National consolidation, imperialist adventure, and European society and politics from 1815 to 1914.

HY 252. Twentieth Century Europe. 3 Hours.
Europe as transformed by total war, economic dislocation, rise of totalitarian movements, and post-1945 integration from 1914 to present.

HY 257. The Celtic Fringe: Ireland, Scotland, Wales. 3 Hours.
History of “other” British nations: Irish, Scots, and Welsh. Internal development and relations with England.

HY 258. Britain and the Third World. 3 Hours.
This course examines the relations between Great Britain, the modern world’s first superpower and non-European peoples all over the world. In addition to examining issues of Empire, the course stresses the cultural interactions that were critical in the development of the modern world and the problems and opportunities of multi-ethnic societies. The course emphasizes those areas in Africa, Asia and the Middle East where the encounters between the British and the native culture created situations which are still major issues for the twentieth century world. Parallels to American experiences are also discussed. Ethics and Civic Responsibility are significant components of this course.

HY 259. Social History of Crime. 3 Hours.
This course examines the various approaches historians have made to the social and cultural history of criminal violence. While the topic is one that applies to every human society, most of the material deals with Europe and the United States.

HY 260. History of Afro-Latin America. 3 Hours.
This course surveys the history of those countries of Latin America, e.g. Cuba, Brazil and Colombia, that comprise the heart of the New World's African diaspora, having received most of the roughly 10 million Africans brought to Latin American shores during the centuries-long transatlantic slave trade. It explores the dramatic experiences of Afro-Latin Americans including their roles in the destruction of slave systems, creation of nations based on democratic principles, and rise of vibrant multicultural societies.

HY 262. Introduction to Early Modern Spanish History. 3 Hours.
Survey of the history of Spain from the 15th to the 18th centuries with emphases on the social and cultural effects of European expansion, race and religion, the Inquisitions, and Spain's contribution to European art and literature.

HY 263. History of the Russian Empire. 3 Hours.
Russian history from prehistory to 1917, focusing on development of Russian state and its social and political character.
HY 264. Russian Revolution: 1917-1921. 3 Hours.
Russian Revolution with emphasis on political, social, and national conflicts in cities, countryside, and in non-Russian areas.

Bolshevik Revolution and role of Soviet Union as world power.

HY 270. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 271. Traditional East Asian History and Culture. 3 Hours.
An introduction to the histories and cultures of East Asia (China, Japan, Korea, and Southeast Asia) from ancient times to 1800.

HY 272. Modern East Asia. 3 Hours.
A political and social history of East Asia and East Asia’s relations with the West from 1800 to present.

HY 275. Perspectives on Science & Mathematics. 3 Hours.
This course explores the intellectual, social, and cultural history of science and mathematics from the Renaissance to the present. It is designed for students in UABTeach and for general education students in order to put this broader history and context to work in science and mathematics education and to improve your writing, research, and information analysis skills.

HY 278. Untold Stories: Oral History. 3 Hours.
This course teaches the techniques and theories of oral history as a primary way to uncover untold or "hidden" histories of ordinary people. Students will conduct interviews of persons who participated in an aspect of history or who witnessed an important era.

HY 279. Women Rogues, Radicals and Reformers. 3 Hours.
This course looks at women as agents of their own history in the United States and of American society as a whole. It concentrates on how women have defined and used sexual politics, political radicalism, and reform agendas from the 1600s to the 1960s.

HY 280. Historic Preservation and Public Policy. 3 Hours.
Ways to research, assess, and use historic buildings and architecture as a way to study history and inform public policy.

HY 285. Mapping Our World. 3 Hours.
This course will focus on the historical applications of mapping and map-making. It will provide a background to geometric mapping and Geography using aerial photography, satellite remote sensing, Geographic Information Systems (GIS), and historical maps and related datasets. Students will be taught the importance of maps to a wide range of fields from a number of academic specialists. This will include the physical sciences (NASA atmospheric applications), biological sciences (environmental mapping), social sciences (crime mapping and archaeological mapping), health sciences (disease mapping), and humanities (religious mapping). Students will work in UAB labs and in broader Birmingham on learning ArcGIS and mapmaking skills, and will submit an e-Portfolio by the end of the semester. Quantitative Literacy is a significant component of this course.

HY 289. Topics in African American History. 3 Hours.
Special studies in African American historical topics.

HY 290. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 291. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 292. Topics in History/SL. 3 Hours.
Special studies of historical topics. May be repeated. Service Learning.

HY 300. The Historian’s Craft. 3 Hours.
This course examines the values, methodology, and materials of historical analysis. During the semester students will develop their writing skills, study the quantitative aspects of historical scholarship and examine the ethical and civic responsibilities historians bear towards the profession and the larger community. Writing is a significant component of this course.

HY 303. Women in American History. 3 Hours.
Changing economic, political, and social roles of women from colonial period to present.

HY 304. U.S. Civil Rights Movement. 3 Hours.
History of civil rights from late 19th century to present; significance of movement to those involved and to rest of American society.

HY 305. Popular Culture in American History. 3 Hours.
Mass culture of U.S. through films and recorded sound, from creation of entertainment industry in 19th century to television and counterculture of 1960s.

HY 307. The American Film. 3 Hours.
Creation and development of motion pictures in the United States, including how films are made, American film industry, and the impact of Hollywood on American culture.

HY 308. History of Popular Music in the United States. 3 Hours.
Creation of musical entertainment, the changing audience, and diffusion of recordings from earliest recordings of music hall songs to rap and hip hop.

HY 309. American Independent Film. 3 Hours.
Focuses on the rise of the independent film in the 1980s and the struggle with mainstream Hollywood studios for dominance of cinema in the 1990s. Covers independent film makers, finance, scripts and what it takes to make a personal film.

HY 310. Film in the 1960s. 3 Hours.
The sixties were a revolutionary time for films and the film industry, and this course surveys film from Europe and Asia but with special emphasis on American film and the way it reflected the counter culture.

HY 311. History of the Documentary Film. 3 Hours.
Studies the development of the film documentary and the issues of representing reality on film. Deals with film aesthetic and the techniques of making films. Looks at American and European documentaries.

HY 312. Rock n Roll and Race Relations. 3 Hours.
Looks at popular music as a part of American Culture. Concentrates on the rise of R and B and rock n roll as the signifiers of a new youth culture in the United States with special emphasis on music in Birmingham.

HY 313. Indie Rock from Punk to Post Modern. 3 Hours.
Covers the rise of indie rock from the punk era of the 1970s to the Seattle Sound of the 1990s, and its impact on popular culture. Also examines the influence of sampling, electronica and dance music on the alternative culture of the 1980s.

HY 314. Roman Republic. 3 Hours.
Survey of Roman history, society, and culture from the founding of the city of Rome in 753 BCE to the death of Julius Caesar in 44 BCE. Course covers the conquest of Italy, the Punic wars, and the conquest of the Hellenistic kingdoms. Emphasis on the impact of military success on the lifestyle and culture of the Roman people.

HY 317. History of Ancient Greece. 3 Hours.
Ancient Greece from prehistory to Alexander and the Hellenistic age.
HY 318. History of the Roman Empire. 3 Hours.
Survey of Roman history, society, and culture from the death of Julius Caesar in 44 BCE to the reign of Constantine in the early fourth century CE, with an emphasis on how the Roman Empire ruled.

HY 319. Late Antiquity and Early Middle Ages. 3 Hours.
This course explores the transition from the Classical Greco-Roman Mediterranean world to the Middle Ages. It begins with the conversion of the Roman Empire to Christianity. Then it explores the collapse of the Western Roman Empire and the continuation of the Eastern Empire (known to historians as the Byzantine Empire). It places Mohammad and the rise of Islam in its historical context and explores the impact of the early Islamic conquests. The course will finish around the year 800 with the reign of Charlemagne in the West and Islamic Abbasid Dynasty ruling in Baghdad.

HY 320. Political History From Roosevelt to Roosevelt. 3 Hours.
History of the period between 1900 and 1945, with emphasis on national politics.

HY 321. Political History Since FDR. 3 Hours.
A History of United States since 1945, with a special emphasis on national politics; includes Cold War domestic and foreign policy, the rights revolutions, changing political ideologies and identities, globalization and its effects.

HY 322. The Great Depression in Film. 3 Hours.
Examines the causes and effects of the Great Depression using both fictional and documentary films and required readings; students will analyze how Hollywood interpreted the lives of Americans during that period.

HY 325. Southern Politics in the 20th Century. 3 Hours.
The social and economic bases of Southern politics.

HY 326. Mansions, Mines, and Jim Crow. 3 Hours.
This course will study the history of Birmingham (1871-1950) by examining the few men who owned the mines and mills, the masses of men who worked for them, and the way that Jim Crow segregation kept the system from working.

HY 327. Southern Labor History. 3 Hours.
Unique conditions and people who formed Southern labor history. Changing contours of slave, industrial, and post-industrial labor force.

HY 329. US Women's Labor History. 3 Hours.
Role and influence of working women on American history as social and political force in creating work identity and culture.

HY 330. Middle East 550 BCE to 1453 CE. 3 Hours.
Survey course on the history of the Middle East from the rise of the Persian Empire to the Ottoman conquest of Constantinople. Course covers the Persian Empire, Alexander the Great's conquests, Roman in the Middle East, the early Islamic Conquests, and the impact of the Crusades. The development of Judaism, Christianity, and Islam are emphasized.

HY 334. The World Since 1945. 3 Hours.
Events and trends from the end of the Second World War to the present, emphasizing the origins of the Cold War, decolonization, European integration, globalization, the rise of China, India, and Japan, the revolutions in Eastern Europe in 1989 and the collapse of communism in the Soviet Union, the third wave of democratization, Islamic fundamentalism, 9/11, and the international financial crisis of 2008-2009.

HY 336. Europe Since 1945. 3 Hours.
After the Nazi catastrophe, what was to be the future of Europe? After sketching the context of unparalleled death and destruction, this course focuses on European reconstruction on both sides of the Iron Curtain. While contrasting Eastern and Western regimes, course will also seek to compare postwar recovery plans, cultural aesthetics, and shared legacies born out of the experience of World War II. Strong emphasis is given to questions of memory and national identity, the history of European integration in the West, and socialist interdependence in the East. After 1989, course will focus on the expansion of the European Union, alongside transnational cultural phenomena such as European soccer, environmentalism, spaces of memory, and the loaded question of Europe’s “boundaries” in the east and southeast.

HY 337. Eastern Europe 1600-1918. 3 Hours.
Before WWI, Eastern Europe consisted of a patchwork of ethnic groups ruled by four empires, which were ultimately destroyed with the rise of nationalism. This course explores this lost world of Eastern Europe in the Age of Empire and attends to four conceptual areas which dominated it: the concept and practice of Empire; the genesis, development, and triumph of nationalism; the contribution of the region’s diverse Jewish population; and questions surrounding the ultimate downfall of this world. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 338. Eastern Europe 1914-Present. 3 Hours.
This course traces drastic transformative processes which remade Eastern Europe during the violent twentieth century, including: nationalism, ethnic cleansing, genocide, the Holocaust, communism, the Cold War, and European integration. Virulent nationalism, Nazi atrocities, and the vicious revenge they inspired decimated the multiethnic world that had come before and forged ethnically homogenous nation-states with rigid frontiers. With previous understandings of property rights, moral responsibility, and neighborliness undermined, and with Soviet armies occupying the ruins that remained, communists and their unwitting nationalist allies found fertile ground for the establishment of command economies, which repressed the traumatized survivors of the Second World War and their descendants until 1989. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 339. The Holocaust. 3 Hours.
On the basis of extensive reading, this course introduces students to the central problems surrounding the Nazi genocide of European Jewry as well as the postwar memory debates which have resulted from it. We will examine Jewish culture, contributions, and integration in pre-1932 Europe, as well as after the Holocaust, and conclude by exploring the contemporary influence of the Holocaust, such as in Israeli national identity. Students in this course compose six critical essays surrounding secondary and primary analyses of these conceptual areas and engage in regular course discussions.

HY 340. Popular Culture in the 1960s. 3 Hours.
This class will examine music, film, fashion and sport in the 1960s. Students will discover why the 60s were "swinging," and what constituted cool in the coolest decade ever.

HY 341. US-Latin American Relations. 3 Hours.
A history of the multi-faceted, often troubled, relations between the U.S. and its nearest southern neighbors since the early nineteenth century. While touching on various aspects of those relations, it stresses the geopolitical aspect, focusing on conflicts that have arisen as a result of different interests and perceptions as well as basic power asymmetries.
HY 342. Sex & Latin American Society. 3 Hours.
A social history of Latin America that traces the evolution of relations between the sexes since the colonial period and focuses on the role of gender (socially-constructed rather than biological differences between men and women), along with race, class, and other factors, in shaping the experiences of women in particular.

HY 343. Modern Latin America. 3 Hours.
A survey of Latin American history from c. 1810 to the present. Covers the vital era of political independence and, through “case studies” of major countries, examines key trends and developments that have shaped the region and its 21 nations since then. Major topics include 19th century nation-state formation and economic modernization; 20th century urbanization, nationalism, social revolution, military dictatorships, and democratization, including the rise of influential women’s (and feminist) movements.

HY 351. Continental Enlightenment 1680-1790. 3 Hours.
Ideas and politics during 18th century, focusing on Western Europe outside France; new ideas about society, religion, and government in Italian and German states.

HY 353. The Christians in History. 3 Hours.
Origins, development, and spread of Christianity from antiquity to the modern world.
Prerequisites: HY 101 [Min Grade: D] and HY 102 [Min Grade: D]

HY 355. The Reformation. 3 Hours.
Issues and meanings of the Protestant and Catholic Reformations of the 16th and 17th centuries, with particular attention to intellectual, social, and political dimensions.
Prerequisites: HY 101 [Min Grade: D]

HY 357. Religion in Early Modern European History. 3 Hours.
Examines the theological, social and political upheavals that shaped religious life and how religion permeated early modern culture from the abstract philosophical debates to the most mundane daily activities.

HY 359. Social History of Crime. 3 Hours.
This course examines the various approaches historians have made to the social and cultural history of criminal violence. While the topic is one that applies to every human society, most of the material deals with Europe and the United States.

HY 360. The Celtic Fringe: Ireland, Scotland, Wales. 3 Hours.
History of other British nations; Irish, Scots, and Welsh. Internal development and relations with England.

HY 361. Britain and the Third World. 3 Hours.
British foreign policy, emphasizing Empire and British relations with peoples outside Europe.

HY 370. End of the U.S.S.R.. 3 Hours.
An analysis of Gorbachev’s impact on the Soviet Union and the social and political forces he unleashed.

HY 371. Traditional East Asian History and Culture. 3 Hours.
An introduction to the histories and cultures of East Asia (China, Japan, Korea, and Southeast Asia) from ancient times to 1800.

HY 372. Modern East Asia. 3 Hours.
A political and social history of East Asia and East Asia’s relations with the West from 1800 to present.

HY 375. The Pacific War, 1931-1945. 3 Hours.
The military and political conflict between Japan, China, and the United States from the Manchurian Incident to the atomic bombings of Hiroshima and Nagasaki.

HY 378. Untold Stories: Oral History. 3 Hours.
This course teaches the techniques and theories of oral history as a primary way to uncover untold or “hidden” histories of ordinary people. Students will conduct interviews of persons who participated in an aspect of history or who witnessed an important era.

HY 379. Women Rogues, Radicals and Reformers. 3 Hours.
This course looks at women as agents of their own history in the United States and of American society as a whole. It concentrates on how women have defined and used sexual politics, political radicalism, and reform agendas from the 1600s to the 1960s.

HY 388. History of American Medicine. 3 Hours.
Survey of patterns and trends in American medicine.

HY 389. Topics in African American History. 3 Hours.
Special studies of African American historical topics. May be repeated.

HY 390. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 391. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 392. Topics in History/SL. 3 Hours.
Special studies of historical topics. May be repeated. Service Learning.

HY 393. 3. 3 Hours.
Special studies of historical topics. May be repeated.

HY 401. Honors Thesis. 3 Hours.
Independent research project for honors students in history, directed by faculty advisor.

HY 402. Reacting to the Past. 3 Hours.
Reacting to the Past is an award winning pedagogy involving complex, collaborative role-playing games in which students seek to attain “victory objectives” while grappling with central tests in the history of ideas. This class will conduct several Reacting games that will allow students to explore key moments in European intellectual and cultural history.

HY 403. Colonial American History to 1765. 3 Hours.
Examines colonial North America, especially Britain’s colonies, their social and cultural development, and the emergence of distinctive British American and African American identities.
Prerequisites: HY 120 [Min Grade: D]

HY 404. American Revolution. 3 Hours.
This course provides an introduction to the history and historiography of the American Revolution and the emergence of the United States as a nation-state with emphasis on the origins of the Revolution, the progress of the War for Independence, the social consequences of the Revolution, the creation of the American Republic, and the contested memories and meanings of the Revolution and American identity.
Prerequisites: HY 120 [Min Grade: C]

HY 405. War and Society in Early America. 3 Hours.
Examination of the history of warfare in colonial North America and the impact of war on colonial and native societies. Topics will include the “military revolution” and colonial America, war and culture, and wars for empire.
Prerequisites: HY 120 [Min Grade: C]

HY 406. Age of Jackson and the Market Revolution. 3 Hours.
Examines the first 50 years of the 19th Century, commonly known as the Age of Jackson or the Market Revolution, as an era of profound economic, political and cultural revolutions that overwhelmed America as it became recognizably modern, industrial and democratic.
HY 408. Early Republic, 1789-1828. 3 Hours.
Intellectual, political, and social origins and aspects of decades and the search for a national culture and identity.
Prerequisites: HY 120 [Min Grade: C]

HY 409. U.S. Constitutional History to 1877. 3 Hours.
Landmark cases in interpretation of Constitution against background of American history.
Prerequisites: HY 120 [Min Grade: C]

HY 410. U. S. Constitutional History Since 1877. 3 Hours.
Landmark cases in interpretation of Constitution against background of American history.
Prerequisites: HY 121 [Min Grade: C]

HY 411. The Antebellum South. 3 Hours.
South from post-revolutionary era through 1860, emphasizing social and cultural developments and myths.
Prerequisites: HY 120 [Min Grade: C]

HY 412. The American Civil War. 3 Hours.
Origins of secession and political, social, military, and diplomatic developments during war.
Prerequisites: HY 120 [Min Grade: C]

HY 413. Reconstruction in America. 3 Hours.
Myths and realities of Reconstruction from 1865 to 1877.
Prerequisites: HY 120 [Min Grade: C]

HY 414. The New South, 1877 to 1945. 3 Hours.
Political, economic, and urban development of South from Reconstruction to end of World War II.

HY 415. The Modern South, 1945 to Present. 3 Hours.
Social, political, and cultural developments of post-World War II South, including urbanization, civil rights, political party transformations, ethnic diversification, and federal public policy.
Prerequisites: HY 121 [Min Grade: C]

HY 416. The Fifties in America. 3 Hours.
Examines the decade that was the 1950’s using documentaries and movies to identify major events and trends which includes the Korea War, political change, civil rights, teen culture and changing sexual mores.

HY 417. The Making of Modern America 1877-1920. 3 Hours.
Changing forms of industrialism and social problems created; Populism, Progressivism, and other reform movements of era.

HY 418. America in the 1920s and 1930s. 3 Hours.
American popular culture, political development, and economic change in period between two World Wars.
Prerequisites: HY 121 [Min Grade: C]

HY 419. The Second World War. 3 Hours.
Diplomatic and military history, with emphasis on world-historical changes brought about by World War II.

HY 420. Recent America 1945 to the Present. 3 Hours.
Economic, social, and political trends; history of Cold War.

HY 421. The Vietnam Wars, 1945-1975. 3 Hours.
A social, political, and military history of the French and American wars in Vietnam during the Cold War era.

HY 422. Ethnic Cleansing & Genocide 1912-2012. 3 Hours.
With strong attention to definitions and critical approaches to comparative history, this course examines the varied forms of forced population movements in recent European history, moving from precedents during and after World War I through the era of upheaval during and after World War II. A significant portion of the course examines the legacy of these movements after 1945 and then broadens discussion to examine global forced population movements in the postwar period (India/Pakistan, Palestine/Israel, Rwanda, etc.) and contemporary cases. Alongside intensive readings, it incorporates a critical research paper devoted to an instance or aspect of forced population movement.

HY 423. Southern Women: Image and Reality. 3 Hours.
Southern women’s lives from colonial period into 20th century. Contrasts myths, particularly myth of belle on pedestal, with realities of women’s lives.
Prerequisites: HY 120 [Min Grade: C]

HY 424. Emergence of Modern American 1877-1945. 3 Hours.
Focused study of the final appearance of an industrial economy and the different approaches to the government it generated, including the various reform movements (populism, socialism, progressivism, latent civil rights, women’s movement, New Deal) that spun out of this experience.
Prerequisites: HY 121 [Min Grade: C]

HY 427. History of American Technology. 3 Hours.
Development and impact of new technology in U.S. from colonial period to present.

HY 428. Technology and American Life. 3 Hours.
Impact of technology on modern American life and culture; automobile, television, and computer.

HY 429. Workers in American Society. 3 Hours.
Seventeenth century artisans to contemporary factory and office workers, organized and unorganized; effect of industrial and technological revolution on American labor, society, and politics.
Prerequisites: HY 120 [Min Grade: C]

HY 430. U. S. Labor History. 3 Hours.
Examines the multi-faceted lives of American workers from the colonial period to the late 20th Century with emphasis on their changing lives as economics changed.

HY 431. American Film and Violent Society. 3 Hours.
History of violent movies in the United States from earliest silent films to new gangster films of Quentin Tarantino. Meaning of these films and what they say about American society.

HY 432. Labor History in Film. 3 Hours.
Examines and contrasts the imagery of working class life with documentary and film.

HY 433. American Urban History. 3 Hours.
Major patterns of urbanization and urban life in American history.

HY 436. Money and Capitalism. 3 Hours.
The primary objective of this course is to acquaint students with the development of fundamental concepts in economic theory and major economic thinkers, their works and ideas from the late 18th century up to the recent past. There will be an emphasis on the evolution and synthesis of ideas basic to current economic theory. Written research, oral discussion, and critical analysis will make up a significant part of this course. Students will have ample opportunity to read, analyze, and discuss various issues and to consider, in a respectful but rigorous manner, the arguments, reasoning, and viewpoints of others. Significant weight will be given to participation in class discussions.
HY 439. American Environmental History. 3 Hours.
Changing perspectives on American environment and major issues in environmental history.

HY 445. History of Women Latin America. 3 Hours.
Condition of Latin American women in historical perspective with reference to factors such as race, class, religion and ethnicity; Hispanic cultural attitudes that aave shaped that condition over time.

HY 446. Nations of the Andes. 3 Hours.
A study of the vital Andean region of South America since the time of the Inca Empire, with special focus on the rise of the modern-day countries of Peru, Chile, Ecuador and Colombia. Explores their struggles, starting in the 19th century, to transform their ethnically diverse, highly stratified societies into modern and more inclusive nations. Major topics include the impact of 19th century liberal nation-building and agro-export economies as well as 20th century nationalism, "indigenismo", social conflict, populism, revolutionary movements and contemporary ethnic rights movements; also, the rise of illicit drug-production and trafficking.
Prerequisites: HY 245 [Min Grade: C] or HY 247 [Min Grade: C] or HY 248 [Min Grade: C] or HY 341 [Min Grade: C] or HY 342 [Min Grade: C]

HY 447. Modern Mexico. 3 Hours.
Examines the evolution of the Mexican nation and its relations with the rest of the world from c.1800 to the present. This includes the country's dramatic 19th century struggles for political unity and survival; the U.S.-Mexican War and origins of Mexicans' Yankeephobia; the epic Mexican Revolution of 1910 and its impact; and rise of modern Mexican nationalism as well as contemporary trends such as the restoration of electoral democracy since c. 2000.
Prerequisites: HY 245 [Min Grade: C] or HY 247 [Min Grade: C] or HY 248 [Min Grade: C] or HY 341 [Min Grade: C] or HY 342 [Min Grade: C]

HY 448. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 449. Topics in History. 3 Hours.
Special studies of historical topics. May be repeated.

HY 450. Topics in Ancient History. 3 Hours.
Special studies in ancient historical topics. May be repeated.

HY 451. History of Greece. 3 Hours.
Ancient Greece from prehistory to Alexander and Hellenistic Age.

HY 452. History of Rome. 3 Hours.
Ancient Rome from time of Etruscans through Republic and Empire until decline in the 4th century A.D.

HY 453. Clash of Civilizations. 3 Hours.
This course critically analyzes the conception of a clash between "eastern" and "western" civilizations through historical based case studies. Possible topics include the Greco-Persian wars, the early Islamic conquests, the Crusades, the Israeli-Palestinian Conflict, and the War on Terror.

HY 454. Topics in Middle Eastern History. 3 Hours.
Special studies in Middle Eastern historical topics.
Prerequisites: HY 101 [Min Grade: D]

HY 455. Renaissance and Reformation. 3 Hours.
From background of medieval society to birth of commercial, urban society; individualism; development of centralized territorial state; popular piety; humanism and art.
Prerequisites: HY 101 [Min Grade: D]

HY 456. Seventeenth-Century Europe: Absolutism, Revolution and Science. 3 Hours.
Evaluation of Seventeenth century through a study of the economy and society, statecraft and politics, warfare and the military revolution, the English civil war, the scientific revolution, and court life and absolutism.
Prerequisites: HY 101 [Min Grade: D]

HY 457. Nineteenth-Century Europe. 3 Hours.
National consolidation, imperialist adventure, and European society and politics, 1815-1914.

HY 458. Modern Europe. 3 Hours.
Europe as transformed by total war, economic dislocation, and rise of totalitarian movements; 1914 to present.

HY 459. Spain and the Spanish Inquisition. 3 Hours.
Examines early modern Spanish history covering the breakdown of the Spanish "convivencia," the rise of the Catholic kings and the absolutist state, the establishment of a Spanish colonial empire and its ultimate decline of power, as well as an examination of the Spanish Inquisition and its institutional development and function as a tool of the Spanish state.

HY 460. Ancient and Medieval Britain. 3 Hours.
Celtic, Anglo-Saxon, Roman, and Viking influences and evolution of kingdom from Norman Conquest to reign of Edward Ill.

HY 461. English History: 1307-1660. 3 Hours.
Social and political history of England from peasant uprisings of the late 14th century through Wars of the Roses, Tudor years, and civil war of the 17th century.

HY 462. Early Modern Britain. 3 Hours.
History of the nations of the British Isles from the civil wars of the 16th century to the beginning of the Victorian Age.

HY 463. Victorian Britain. 3 Hours.
Social and political history of 19th century Britain.

HY 464. Modern Great Britain. 3 Hours.
Problems facing Britain in the 20th century, including end of empire, economic decline, and political restructuring.

HY 465. French Enlightenment. 3 Hours.
French Enlightenment as intellectual and social phenomenon.

HY 466. The French Revolution. 3 Hours.
Revolution as social, political, and cultural event and its place in modern European history and historiography.

HY 467. Modern France 1815 - Present. 3 Hours.
Economic, social and political history of France and the contentious issues of equality, democracy, and liberty between the Napoleonic era and the present.
HY 466. German Catastrophe 1815-2012. 3 Hours.
After the collapse of Nazism, Germany was in ruins, truncated to a fraction of its former size, occupied and divided by hostile powers, and stained by the infancy of barbaric war crimes, most especially the Holocaust of Europe's Jews. After first examining the rise of German power and influence in nineteenth and early twentieth-century Europe (with emphasis on German nationalism, ideological tensions, Jewish life, industrialization, and Germany's relations with its Eastern neighbors), this course examines how defeat and resulting extremism after the First World War bred an environment in which the Nazis could seize power. Step by step, we will explore how an entirely new East Central Europe was forged in the terrible fires of 1938-1948, and we will examine how the resulting ruptures in memory and self-understanding wrought by this German Catastrophe were buried, manipulated, and confronted over the course of the Cold War and to the present day.

HY 469. Stalin and Stalinism. 3 Hours.
The life and times of Joseph Stalin (1878-1953) and his impact on the development of the Soviet Union after Lenin's death in 1924.
Prerequisites: HY 102 [Min Grade: C] or HY 105 [Min Grade: C] or HY 121 [Min Grade: C]

HY 470. The Soviet Union Since 1953. 3 Hours.
Soviet economic, political, and social trends since Stalins death in 1953.
Prerequisites: HY 102 [Min Grade: C] or HY 105 [Min Grade: C] or HY 121 [Min Grade: C]

HY 471. Russian Intellectual History. 3 Hours.
The emergence of modern Russian intellectual thought from Peter the Great (1682-1725) to the outbreak of the First World War with special emphasis on philosophy, literature, history and the issue of the Russian identity, as formulated by those who claim that Russia is part of the West and those who claim that it is a completely exceptional political and culture entity.

HY 472. Terror and Terrorism from French Revolution to Present. 3 Hours.
History of terrorism from its advent during the French Revolution of 1789 to the global war of present time reviewing three main instances of terrorism in history; French Revolution from 1793 through 1794, Russia in the 1870s and 1880s and their civil war between 1918 and 1921, and the present-day conflicts involving the United States and the Middle East.

HY 473. The Cold War. 3 Hours.
A survey and assessment of the dynamic relationship between the United States and its allies and the Soviet Union and the People's Republic of China from the Second World War to 1991 and the collapse of the USSR. This course emphasizes the domestic as well as the international sources of this conflict, starting with the Second World War and communist ideology. It will cover the rise and fall of the international communist order, highlighting the differences between Soviet and Chinese efforts to reform their post-Stalinist and post-Mao systems in the 1980s, and the US role in this process.

HY 475. Modern China. 3 Hours.
China's political, social and cultural history from the final decades of the Qing dynasty in the 19th century to its re-emergence as a major world power in the late 20th century.

HY 476. Japan to the 19th Century. 3 Hours.
Japan's political and cultural history from its legendary beginnings to the final decades of the Tokugawa shogunate.

HY 477. Modern Japan. 3 Hours.
Japan's political and cultural history from the Meiji Restoration to the present.

HY 478. Topics in European History. 3 Hours.
Special Studies in European History. May be repeated.

HY 480. Historic Preservation and Public Policy. 3 Hours.
Ways to research, assess, and use historic buildings and architecture as a way to study history and inform public policy.

HY 481. Public History. 3 Hours.
Various approaches to interest and inform general public of local and state history. Visits to public history sites around Birmingham area.

HY 482. Internship in Public History. 1-3 Hour.
Individually designed program that allows students to work in local historic museums, archives, or other sites to gain professional experience in public history.

HY 483. Internship in Environmental Studies. 1-3 Hour.
Individually designed program that places students in local environmental organizations, divisions of local businesses or government, or special projects to gain professional experience in preparation for an environmental career.

HY 489. Topics in African American History. 3 Hours.
Special studies in African American historical topics. May be repeated.

HY 490. Undergraduate Seminar in History. 3-6 Hours.
Topic varies depending on professor.

HY 491. Directed Readings in History. 3 Hours.
Individually designed course of reading in various fields.

HY 492. Directed Readings in History. 1-3 Hour.
Individually designed course of reading in various fields.

HY 497. History Capstone. 3 Hours.
This course requires history majors to demonstrate their competency by successfully completing a research project.
Prerequisites: HY 300 [Min Grade: C]

IB-International Business Courses

Courses

IB 495. Business Study Abroad. 3 Hours.
Academic course of study in a business discipline which takes place in a foreign location. Sophomore standing, UAB GPA minimum 2.7 and permission of Collat School of Business faculty sponsor.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS-Information Systems Courses
Courses

IS 103. Applied Information Technology. 3 Hours.
Use of microcomputers, business applications in office automation, analysis of business problems, and retrieval and presentation of information.
Prerequisites: MA 105 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C] or (A02 23 and HSCG 3.50) or (A02 24 and HSCG 3.00) or (A02 25 and HSCG 2.50) or (A02 26 or S02 540 and HSCG 3.50) or (S02 560 and HSCG 3.00) or (S02 580 and HSCG 2.50) or S02 600 or MAC1 17

IS 204. Introduction to Business Programming. 3 Hours.
An introductory course addressing the concepts, structures, and use of an event-driven programming language to implement business solutions. Emphasis is placed on developing general problem-solving strategies and implementing solutions through algorithm development.
Prerequisites: IS 103 [Min Grade: C]

IS 301. Introduction to Database Management Systems. 3 Hours.
An introductory course on database management systems. Emphasis is placed on providing students with the fundamental knowledge necessary to model business data needs, design logical data models, and design, implement, and use of a physical database in application development.
Prerequisites: IS 321 [Min Grade: C]

IS 302. Enterprise Systems. 3 Hours.
A study of data communications technologies used for business. The technologies include local and wide area networks, as well as telephony. Network management and security are also emphasized.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 303. Information Systems. 3 Hours.
Theory and application of management information systems. Planning, design, development, and implementation of and strategic issues in information systems, World Wide Web, Internet, and knowledge-based systems. Junior standing required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 305. Introduction to Application Development. 3 Hours.
A course addressing the concepts, structures, and use of object-oriented problem solving and the C# programming language. Emphasis is placed on developing general problem-solving strategies and implementing solutions through algorithm development using object class models and C#.
Prerequisites: (IS 204 [Min Grade: C] and IS 301 [Min Grade: C](Can be taken Concurrently) and GPAT and GPAO 2.00)

IS 321. Systems Analysis. 3 Hours.
Focuses on the planning, decision making tasks and requisite skills necessary for the analysis of information systems.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 413. Information Security Management. 3 Hours.
Develop an understanding of key information security concepts. Develop an understanding of how people, technology and organizational policies should be developed and managed to safeguard an organization’s information resources. Learn how to manage under uncertainty and risk. Develop policies and procedures to make information systems secure. Learn how to adult and recover from security breaches.

IS 415. Social Media & Virtual Communities. 3 Hours.
This course focuses on how social media and virtual communities are changing business in fundamental ways. The course helps students gain practical facility in the use of social media tools and learn meta-skills like how to use new social media tools, how to use filters to make sense of social media, and how to curate news and reports in a manner that contributes to business knowledge and intellect.

IS 416. Web Analytics. 3 Hours.
The Web Analytics course introduces technologies and tools used to realize the full potential of web sites. The course focuses on collection and use of web data such as web traffic and visitor information to design web sites that will enable firms to acquire, convert and retain customers.

IS 417. Introduction to Business Intelligence. 3 Hours.
This course covers topics of knowledge management and business intelligence from an organizational IT perspective. The content of the course includes discussion of and readings on the nature of knowledge, knowledge discovery, generation, capture, transfer, sharing, and application; and includes discussion of the core IT capabilities necessary to deliver Business Intelligence in organizations. The development and use of data warehouses and data marts to support business analytics is discussed.

IS 464. IS Internship. 3 Hours.
Work experience enabling students to better integrate academic knowledge with practical applications by exposure to accounting practice and the business environment. 2.50 GPA in IS courses and permission of instructor required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 491. Current Topics in Information Systems. 3 Hours.
A study of selected current developments in information systems emphasizing development and managerial implications. Permission of instructor required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

IS 499. Directed Readings. 1-3 Hour.
Readings and independent study in selected areas.

ITL-Italian Courses

Courses

ITL 101. Introductory Italian I. 3 Hours.
This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Italian is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

ITL 102. Introductory Italian II. 3 Hours.
This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Italian is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.
Prerequisites: ITL 101 [Min Grade: D]

ITL 190. Study Abroad: Italian. 1-6 Hour.
Approved novice level study abroad program in an Italian-speaking country.
ITL 201. Intermediate Italian I. 3 Hours.
This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Italian is spoken.

ITL 290. Study Abroad. 1-6 Hour.
Approved program in an Italian-speaking country.

ITL 299. Directed Readings in Italian. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Italian students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Italian language and culture. Intermediate proficiency in reading, writing, listening and speaking Italian is the targeted outcome. Permission of Department Chair required.

ITL 390. Study Abroad. 1-6 Hour.
Approved upper level study abroad program in an Italian-speaking country. Permission of Department Chair and Study Abroad Director.

ITL 399. Independent Study. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Italian language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of the Italian language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Italian is the targeted outcome. Permission of the Department Chair required.

JPA-Japanese Courses

Courses

JPA 101. Introductory Japanese I. 3 Hours.
This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Japanese is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

JPA 102. Introductory Japanese II. 3 Hours.
This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Japanese is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

Prerequisites: JPA 101 [Min Grade: D]

JPA 190. Study Abroad. 1-6 Hour.
Approved novice level study abroad program in Japan. Permission of Department Chair required.

JPA 201. Intermediate Japanese I. 3 Hours.
This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Japanese is spoken. (CORE AREA II).

Prerequisites: JPA 102 [Min Grade: D]
Continuation of JPA 201. Conducted in Japanese. (CORE AREA II).
Prerequisites: JPA 201 [Min Grade: D]

JPA 203. Intermediate Japanese Language & Culture I. 3 Hours.
This course aims at improving students’ linguistic and cultural fluency necessary for functioning in Japanese. Class activities will consist of communicative exercises such as role-playing. While emphasis will be placed on oral skills, attention will also be given to the written Japanese that one encounters in daily life, particularly in signage and forms. Topics may include: Conversational Japanese in such settings as restaurant, store, public transportation, airport, post office, hospital, home-stay, hotel, and local attractions.
Prerequisites: JPA 102 [Min Grade: D]

JPA 204. Intermediate Japanese Language & Culture II. 3 Hours.
This course focuses on developing students’ reading and writing skills to increase Japanese literacy. It will also expand students’ vocabulary, grammatical understanding, listening and speaking. Topics may include: Examples will be taken from authentic popular literature, manga and anime, folktales, letters, e-mails and songs. Students will learn how to write basic compositions and make speeches.
Prerequisites: JPA 202 [Min Grade: C]

JPA 206. Business Japanese. 3 Hours.
Japanese course focusing on the effective communication skills essential in professional fields and the understanding of the Japanese business world. Students develop their verbal, listening, reading, and writing proficiency in business Japanese and acquire culturally appropriate interpersonal communication skills needed to deal with a variety of business situations. Students are expected to effectively employ their language skills to explore and analyze current business trends and issues in Japan. Conducted in Japanese.
Prerequisites: JPA 203 [Min Grade: C]

JPA 210. Discourse and Culture in Japanese. 3 Hours.
Study of the significance of cultural knowledge in understanding the meaning of language. The course focuses Japanese learners to understand values, expectations and appropriate behavior in Japanese culture, as well as the theoretical underpinnings of pragmatics and discourse analysis. Conducted in Japanese.
Prerequisites: JPA 202 [Min Grade: C]

JPA 211. Contemporary Issues in Japanese Society. 3 Hours.
Study of selected themes in contemporary Japanese society and culture, through reading and discussion of contemporary debates in periodicals, news sources and other media. Readings will focus on such themes as work and social pressure, gender inequality, social alienation, declining birthrates, aging and social support, media images, and education. Conducted in Japanese.
Prerequisites: JPA 202 [Min Grade: C]

JPA 290. Japanese for Study Abroad. 1-6 Hour.
This study-abroad Japanese course aims at improving students' oral fluency. It will help students develop intermediary conversational skills as they study in total immersion. The emphasis will be on efficient target language production at the intermediate level, as well as an oral and comprehension skills, communicative strategies, and the acquisition of vocabulary relating to a variety of domains. The course content will also include discussion and analysis of current cultural topics. JPA 290 will be conducted entirely in Japanese. Permission of department chair required.

JPA 299. Directed Readings in Japanese. 3 Hours.
This is an individualized course of directed readings and activities for intermediate Japanese students. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Japanese language and culture. Intermediate proficiency in reading, writing, listening and speaking Japanese is the targeted outcome.
Prerequisites: JPA 202 or equivalent.

Prerequisites: JPA 204 [Min Grade: C]

JPA 390. Study Abroad. 1-6 Hour.
Approved upper-level study abroad program in a Japanese-speaking country. Permission of Department Chair and Study Abroad Director.

JPA 399. Directed Readings: Japanese. 3 Hours.
This is an individualized course of directed readings and activities for advanced students of Japanese language and culture. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of the Japanese language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening and speaking Japanese is the targeted outcome. Permission of the Department Chair required.

Prerequisites: JPA 201 [Min Grade: C]

JPA 490. Study Abroad: Japan. 1-6 Hour.
Approved upper-level study-abroad program in Japan. Permission of Department Chair and Study-Abroad Director.

JS-Justice Sciences Courses

Courses
JS 100. Introduction to the Criminal Justice System. 3 Hours.
Introduction to criminal justice as a system consisting of interactions among three main components: police, courts, and corrections and the processes involving those components.

JS 101. Crime and Criminality. 3 Hours.
Examination of the causes and consequences in society of crime/delinquency, including theoretical explanations, sources of data on crime/delinquency, and efforts at controlling the behavior.

JS 110. Introduction to Forensic Science. 3 Hours.
Overview of the major components of forensic science including death investigation, toxicology, osteology, questioned documents, law, and criminalistics.

JS 115. Comparative Criminal Justice Systems. 3 Hours.
Analysis of police, judicial, and correctional components found in the world's four major legal systems: Common Law, Islamic, Napoleonic and Socialist.
JS 120. Introduction to Statistics. 3 Hours.
Introduction to basic statistical theory and analysis. Course emphasizes computation, units of measurement, and evaluation of quantitative assertions; interpretation of quantitative data; use of quantitative data for problem-solving; and communication of information using numbers/words appropriate for the audience. Quantitative Literacy is a significant component of this course.

JS 125. Introduction to Forensic Psychology. 3 Hours.
Overview of issues involving the intersection of law and psychology. Focus on role of clinical assessment of competency, scientific jury selection, expert witnesses in court, punishment and sentencing, and related issues.

JS 150. Foundations of Law. 3 Hours.
Examination and analysis of the evolution, function, and sources of law and legal systems in Western culture.

JS 160. Introduction to Private Security. 3 Hours.
Survey of the field of private security, including organizational, administrative, operational, and liability issues common to it.

JS 170. Introduction to Crime Scene Analysis. 3 Hours.
Overview of crime scene investigation (CSI), including history of crime scene investigation; processing techniques and methods used to document and preserve evidence found at crime scenes.

JS 220. Police in America: An Overview. 3 Hours.
Introduction to the history and evolution of modern law enforcement in the United States, including the role and functions of police in the community.
Prerequisites: JS 100 [Min Grade: C] or JS 150 [Min Grade: C] (Can be taken Concurrently)

JS 230. The Judicial Process in America: An Overview. 3 Hours.
Introduction to the structure and function of American courts, including judicial selection and behavior, the prosecution function, jury system, and the role of lawyers.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or JS 150 [Min Grade: C]

JS 240. Corrections in America: An Overview. 3 Hours.
Introduction to history and evolution of probation, prisons, parole, and community-based programs for adult and juvenile offenders.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or JS 150 [Min Grade: C]

JS 250. Criminalistics: An Overview. 3 Hours.
Introduction to identification and application of major types of physical trace evidence in criminal cases involving analysis and comparison. Laboratory component included; Laboratory fee is charged.
Prerequisites: JS 110 [Min Grade: C]

JS 300. Research Methods in Criminal Justice. 3 Hours.
Introduction to ideas, techniques, and problems associated with social research with an emphasis on criminal justice/criminology applications. Writing assignments emphasize ability to make a logical argument and respond to counter claims; incorporating outside sources into written materials; and use conventions appropriate for the discipline. Writing is a significant component of this course.
Prerequisites: (JS 100 [Min Grade: C] and JS 101 [Min Grade: C]) or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 305. Religion and Crime. 3 Hours.
This course is designed to introduce students to research on the impact of religious institutions and values on multiple aspects of public policy and life. Students will explore the impact of religion on law creation, crime-control attitudes, criminal and deviant behaviors, provision of social services, politics, and race/ethnic relations.

JS 307. Crime and Everyday Life. 3 Hours.
Examines everyday aspects of crime, including different forms of crime, media involvement, crime patterns, and policy responses.

JS 320. Police Organization and Administration. 3 Hours.
Analysis of organizational and administrative structure and function of police departments in the U.S.
Prerequisites: JS 100 [Min Grade: C] or CJ 100 [Min Grade: C] or (CJ 101 [Min Grade: C]) and JS 220 [Min Grade: C]

JS 321. Police-Community Relations. 3 Hours.
Overview and analysis of historical and contemporary relationship between police agencies and the public; legal issues; analysis of crime prevention programs, community participation, and police discretion.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and (CJ 220 [Min Grade: C] or JS 220 [Min Grade: C])

JS 322. Legal Aspects of Private Security. 3 Hours.
Introduction to and examination of critical legal aspects of private security, especially liability issues.
Prerequisites: JS 160 [Min Grade: C]

JS 330. Criminal Law. 3 Hours.
Analysis of the development of criminal law, including legal elements of a crime, defenses in criminal cases, appellate case analysis, and legal terminology.
Prerequisites: JS 230 [Min Grade: C] and (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) or (JS 150 [Min Grade: C])

JS 331. Criminal Procedure. 3 Hours.
Introduction to legal rules relating to the criminal process from investigation through punishment.
Prerequisites: (JS 100 [Min Grade: C]

JS 332. Criminal Evidence. 3 Hours.
Examination of the system of rules and standards, both state and federal, by which admission of proof at criminal trial is regulated.
Prerequisites: JS 230 [Min Grade: C] and (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) or JS 100 [Min Grade: C] or JS 150 [Min Grade: C]

JS 333. Trial Advocacy. 3 Hours.
Overview of preparations for civil and criminal litigation including courtroom procedure, evidence, and the art of advocacy.
Prerequisites: JS 230 [Min Grade: C] and (CJ 100 [Min Grade: C] or JS 100 [Min Grade: C] or JS 150 [Min Grade: C])

JS 335. Mediation. 3 Hours.
Examination of mediation as a specific form of alternative dispute resolution (ADR), including its history, development, and processes.
Prerequisites: JS 230 [Min Grade: C] and (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C] or CJ 101 [Min Grade: C] or JS 150 [Min Grade: C])

JS 336. Criminal Investigation: Techniques and Analysis. 3 Hours.
Examination of both technical and analytical aspects of the criminal investigative process.

JS 337. Introduction to the Intelligence Community. 3 Hours.
Overview of the Office of the Director of National Intelligence (ODNI) and its role in the intelligence community; Examination of the development and expansion of state and local fusion centers and first responder roles in evolving federal, state, and local intelligence community enterprise.

JS 338. Intelligence Oversight and Legal Controls. 3 Hours.
Historical development of intelligence oversight from the 1940s to the present; Intelligence abuses; expansion of executive branch authority post-September 11, 2001.
Prerequisites: JS 337 [Min Grade: C]

JS-Justice Sciences Courses
JS 339. Methodologies in Intelligence Analysis. 3 Hours.
Introduction to analytical tactics, techniques, and procedures used by and in the intelligence community.
Prerequisites: JS 337 [Min Grade: C]

JS 340. Terrorism and the Intelligence Community. 3 Hours.
Examines application of the intelligence cycle (collection, analysis, management & dissemination of information) to the war on terrorism using case studies of successes and failures.
Prerequisites: JS 337 [Min Grade: C]

JS 341. Correctional Institutions. 3 Hours.
Introduction to prisons, jails, and juvenile institutions in the U.S.; evolution of penology and correctional change strategies; inmate social system; prison stress, violence, and reform.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 240 [Min Grade: C]

JS 342. Probation and Parole. 3 Hours.
Analysis of history, structure, and function of probation and parole systems in the United States; pre-sentence investigations; offender selection and classification; offender supervision; and agency administration.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 240 [Min Grade: C]

JS 343. Community-Based Corrections. 3 Hours.
Examination of contemporary redefinition of correctional functions emphasizing development and use of community resources; diversion of offenders from criminal justice system; nontraditional correctional programs.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 240 [Min Grade: C]

JS 344. Science and Technology in the Intelligence Community. 3 Hours.
Introduction to, and critical examination of, science and technology capability of each member agency within the intelligence community.
Prerequisites: JS 337 [Min Grade: C]

JS 350. Advanced Criminalistics. 3 Hours.
Examination of advanced criminalistics, including biological or genetic properties of evidence, trace evidence analytics, and fingerprint and tool-mark examinations.
Prerequisites: JS 110 [Min Grade: C]

JS 351. Forensic Science Lab I. 3 Hours.
Basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on trace evidence.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 352. Forensic Science Laboratory III. 3 Hours.
Basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on biological materials.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 360. Criminology. 3 Hours.
Identification and assessment of early and modern theories concerning the causes of crime in society.
Prerequisites: JS 101 [Min Grade: C] or CJ 101 [Min Grade: C]

JS 362. Victimology. 3 Hours.
Examination of the criminal-victim relationship and societal reaction to victims including victim services, restitution, and compensation.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and (CJ 101 [Min Grade: C] or JS 101 [Min Grade: C])

JS 380. Media, Crime & Justice. 3 Hours.
Examination of issues in crime and justice as depicted in popular media, including motion pictures, television, video, and other media.

JS 390. The Death Penalty in America. 3 Hours.
Overview of capital punishment in America including its history and justification, major Supreme Court rulings, current issues, and future directions.

JS 400. Drugs and Society. 3 Hours.
This course teaches the pharmacological effects of and different categories of drugs. Different theories of drug use are discussed as well as the historical development of drug laws. Various harms associated with drug use are discussed as well as the consequences of drug prohibition. Lastly, students are expected to understand the different methods of drug research.

JS 402. Introduction to Computer Forensics. 3 Hours.
Introduction to the use of analytical and investigative techniques in criminal or civil litigation to identify, collect, examine and preserve evidence/information magnetically stored or encoded.

JS 403. Restorative Justice. 3 Hours.
Introduction to, and analysis of, movement in criminal justice to institutionalize peaceful approaches to harm, problem-solving and violations of legal and human rights. Includes discussion of specific programs, critical evaluation of these programs, and analysis of future directions of the movement.
Prerequisites: (JS 100 [Min Grade: C] and JS 101 [Min Grade: C]) or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 404. Serial Killers. 3 Hours.
Examination of the psychology and sociology of serial killers, including case studies, agency responses and related issues.

JS 407. Special Topics in Criminal Justice. 3 Hours.
In-depth analysis of substantive topics in criminal justice and criminology including contemporary issues, ethics, historical review, or related topics. Varies by semester and by Instructor. May be repeated twice for credit.

JS 408. Juvenile Delinquency. 3 Hours.
Introduction to the nature, scope, and causes of illegal behavior by juveniles, and societal responses to that behavior.

JS 410. Criminal Justice Ethics. 3 Hours.
Analysis of systems of ethics and their applicability to problems in the administration of the justice system including those facing police officials, lawyers, judges, and correctional professionals. Writing and Ethics and Civic Responsibility are significant components of this course.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) and JS 220 [Min Grade: C] and JS 230 [Min Grade: C] and JS 240 [Min Grade: C] and JS 300 [Min Grade: C]

JS 411. Juvenile Justice System. 3 Hours.
Introduction to the evolution and operation of specialized agencies and procedures to address juvenile law-breaking, including emerging problems and solutions.
Prerequisites: (JS 100 [Min Grade: C] and JS 101 [Min Grade: C]) or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 412. Juvenile Law. 3 Hours.
Review and analysis of emerging statutory and case law in American juvenile justice.
Prerequisites: (JS 100 [Min Grade: C] or CJ 100 [Min Grade: C]) or JS 150 [Min Grade: C] and JS 230 [Min Grade: C]
JS 413. The Legal Profession. 3 Hours.
Weekly seminars conducted by accomplished practitioners in civil litigation, criminal prosecution, criminal defense, labor and employment law, products liability, domestic relations, military justice, environmental, indigent legal aid, and alternative dispute resolution (ADR) techniques.
Prerequisites: JS 150 [Min Grade: C] and JS 230 [Min Grade: C]

JS 415. Investigating Online Crimes. 3 Hours.
Introduction to cyber investigative techniques involving focused analysis of email and websites; examination of legal process and preparing evidence in cyber crime cases; rules concerning introduction of digital evidence.
Prerequisites: JS 402 [Min Grade: C]

JS 424. Serial Killers in Cross-National Settings. 3 Hours.
Examination of serial homicide in cross-national settings including offender disorders; crime scene analysis; significance of victims; and offender classification process.

JS 434. Mock Trial Competition. 3 Hours.
Represent UAB as member of Mock trial Team in invitational, regional, and national competition. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements.

JS 436. The Intelligence Community. 3 Hours.
Weekly seminars by intelligence community experts covering relevant topics including state fusion centers; proliferation of intelligence units within first responder agencies; growing role of the private sector; and local prosecution for intelligence agency abuse.

JS 437. Cybercrime and Forensics. 3 Hours.
Overview of all aspects of media forensics including analysis of character encoding, file formats, and digital media; examination of disk acquisition and duplication techniques; application of media forensic techniques in criminal investigation scenarios.
Prerequisites: JS 402 [Min Grade: C]

JS 440. White Collar and Corporate Crime. 3 Hours.
Introduction to, and analysis of, illegal/deviant behavior occurring in complex organizational settings, including theoretical explanations; patterns and case studies; and control strategies.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 441. Terrorism and Social Control. 3 Hours.
Exploration of causes and consequences of terrorism and how governments respond, including investigation, prosecution, and punishment of terrorists.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 442. Race, Crime, Gender and Social Policy. 3 Hours.
Examination of how subordinate status of minority groups (African Americans, Hispanics, Native Americans and Women) affects interaction with the justice system as offenders, victims, and professionals.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 443. Women and the Criminal Justice System. 3 Hours.
Examination of women’s experiences as offenders, victims, and professionals in the criminal and civil justice systems.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 444. Law and Society. 3 Hours.
Examination of relationship between law and society, including how law is used to facilitate or retard social change, social control, and social conflict.
Prerequisites: JS 100 [Min Grade: C] or CJ 100 [Min Grade: C] or JS 150 [Min Grade: C] and JS 230 [Min Grade: C]

JS 445. Juvenile Corrections. 3 Hours.
Examination of historical and contemporary efforts to reduce juvenile delinquency through institutional and community-based programs; innovative programs; evaluation of program effectiveness.
Prerequisites: JS 100 [Min Grade: C] and JS 101 [Min Grade: C] or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 450. Questioned Death Investigation. 3 Hours.
Introduction to and analysis of questioned deaths, including techniques used in case investigation; overview and history of coroners’ offices structure and function in the U.S.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 451. Research Methods in Forensic Science. 3 Hours.
Review of routinely used research methods to conduct forensic science scientific studies.
Prerequisites: CJ 110 [Min Grade: C] or JS 110 [Min Grade: C]

JS 453. Investigation of Fires and Explosions. 3 Hours.
Introduction to arson investigation including overview of specific techniques used in case investigation; case preparation and presentation in court.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 456. Forensic Approaches to Osteology. 3 Hours.
Introduction study of structure and function of bones with particular emphasis on ability to identify age, sex, and population type of skeletal material.
Prerequisites: JS 110 [Min Grade: C] or CJ 110 [Min Grade: C]

JS 460. Violence: An American Tradition. 3 Hours.
Examines violence as an American tradition, including historical acts of violence as catalysts for social change, destructive or negative violence, and policies and prevention strategies.
Prerequisites: CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C] or (JS 100 [Min Grade: C] and JS 101 [Min Grade: C])

JS 465. Cold Case Analysis. 3 Hours.
Introduction to methods used in analyzing unsolved cases, including innovative technology, 3rd party investigators, and teams.

JS 466. Spatial Analysis and Crime Mapping. 3 Hours.
This skills-based class will introduce students to the application of geographic information systems (GIS) to crime-related topics and issues.

JS 477. Legislative Issues in the Intelligence Community. 3 Hours.
Case studies of legislative contributions to and curbs on intelligence community's legal authority, including Patriot Act, Foreign Intelligence Surveillance Act (FISA), Defense Department Authorization Act, and state and local legislative initiatives.

JS 481. Honors Research. 3 Hours.
Undergraduate research project developed and completed under direction of faculty mentor.

JS 482. Honors Research and Colloquium. 3 Hours.
Completion of undergraduate Honors Project under the guidance of a faculty mentor with presentation of project at department colloquium.
JS 483. Patterns in Crime. 3 Hours.
Examination of the major correlates of crime and criminality; critical examination of major sources of information from which data on crime correlates are gathered.
Prerequisites: (JS 100 [Min Grade: C] and JS 101 [Min Grade: C]) or (CJ 100 [Min Grade: C] and CJ 101 [Min Grade: C])

JS 490. Independent Research in Criminal Justice. 1-3 Hour.
Independent readings, research or project approved and directed by a criminal justice faculty member who supervises proposed plan of study. Permission of Department Chair.

JS 491. Independent Research in Criminal Justice. 1-3 Hour.
Independent readings, research or project approved and directed by an academic faculty member who supervises proposed plan of study. Permission of Department Chair.

JS 492. Study Abroad in Criminal Justice. 3 Hours.
This course affords students the opportunity to engage in academic study outside of the U.S. to examine substantive topics in crime and justice. Students spend time (to be determined by the specific program) at a destination point, where they engage with students and faculty members in classroom and research settings at partner post-secondary institutions, experience immersion in foreign culture, and engage in comparative analysis of policies and programs relating to crime and justice.

JS 497. Internship and Capstone in Criminal Justice for Practitioners. 3-6 Hours.
Supervised capstone experience for students already working in a local, state, or federal criminal justice or ancillary agency. Course strongly emphasizes demonstration of student ability to communicate in written form to appropriate audiences, including competence in grammar and mechanics; understanding and practicing ethical decision making and civic responsibility; and quantitative analyses including construction and interpretation of tables and ability to adequately communicate quantitative information. Prerequisite: Permission of Internship Coordinator. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements. Ethics and Civil Responsibility and Writing are significant components of this course.

JS 498. Distance Internship and Capstone in Criminal Justice. 3-6 Hours.
Supervised capstone experience in criminal justice agency located more than 100 miles from Birmingham. Course strongly emphasizes demonstration of student ability to communicate in written form to appropriate audiences, including competence in grammar and mechanics; understanding and practicing ethical decision making and civic responsibility; and quantitative analyses including construction and interpretation of tables and ability to adequately communicate quantitative information. Prerequisite: Permission of Internship Coordinator. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements. Ethics and Civil Responsibility and Writing are significant components of this course.

JS 499. Internship and Capstone in Criminal Justice. 3-6 Hours.
Supervised capstone experience in local, state, or federal criminal justice or ancillary agency. Course strongly emphasizes demonstration of ability to communicate in written form to an appropriate audience, including competence in grammar and mechanics; understanding and practicing ethical decision making and civic responsibility; and quantitative analyses including construction and interpretation of tables and ability to adequately communicate quantitative information. Prerequisite: Permission of the Internship Coordinator. May be repeated for maximum of 12 hours of which not more than 6 hours may be counted toward fulfilling major or minor requirements. Ethics and Civil Responsibility and Writing are significant components of this course.

KIN-Kinesiology

Courses

KIN 101. Beginning and Advanced Beginning Swimming. 1 Hour.
This course provides the student with basic aquatic safety skills as well as aquatic survival skills. The strokes include include beginner, front crawl, elementary back stroke, breast stroke, back crawl and side stroke. Intermediate or advanced swimmers will be administratively withdrawn from the course.

KIN 102. Intermediate Swimming/Swimmer Course. 1 Hour.
The intermediate swim course is part of the American Red Cross "Learn to Swim" Program, which is designed for learning and improving swim strokes. Gaining the knowledge and skills needed in basic water safety is the common theme in providing the information and resources to make participation in aquatics activities a lifetime pursuit. Students make be able to swim 25 yards using crawl stroke and elementary backstroke.

KIN 103. Lifeguard Training. 1 Hour.
The American Red Cross Lifeguarding course focuses on training people who are already good swimmers. The course covers the skills and knowledge required for effective lifeguarding at swimming pools and at nonsurf, open-water beaches. Must be able to swim 300 yards continuously and surface dive 7 - 10 feet to retrieve a 10 lb. object.

KIN 104. Tennis. 1 Hour.
Course will provide students with the knowledge and skill needed to play the game of tennis.

KIN 105. Golf. 1 Hour.
This course includes beginning skills, rules and etiquette for recreational golf.

KIN 108. Weight Training and Aerobics. 1 Hour.
This course includes basic weight training and aerobic instruction and workouts.

KIN 112. Dance and Gymnastics. 1 Hour.
This course provides future teachers background in planning and conducting basic dance and gymnastic instruction. Intended for physical education majors.

KIN 114. Rec Games/Outdoor Leisure. 1 Hour.
This course will enable students to experience a wide variety of recreational games and outdoor leisure pursuits.

KIN 115. Weight Training. 1 Hour.
Basic weight training techniques and creation of personal workouts.

KIN 116. Ballroom and Latin Dancing. 1 Hour.
This course includes instruction of the more popular social Latin and Ballroom dances.
KIN 117. Team Sports. 1 Hour.
This course will enable students to learn the basic skills of different team sports (such as team handball, football, volleyball, basketball, soccer, speedball, tchoukball, and rugby). Students will practice those skills to have the ability to gain skill proficiency in playing the sports as well as teaching others to play the sport.

KIN 118. Sports Using Implements. 1 Hour.
This course will enable students to learn the basic skills of different sports that require use of an implement (i.e., badminton, cricket, hockey, lacrosse, softball, and tennis). Students will practice those skills to have the ability to gain skill proficiency in playing the sport as well as teaching other to play the sport.

KIN 124. Beginning Whitewater Kayaking. 1 Hour.
This course is designed to teach beginner paddlers to safely and enjoyably kayak on Class II rivers.

KIN 125. Cheerleaders and Dance Team. 1 Hour.
Open to members of UAB cheerleading and dance teams only.

KIN 126. Flying Disc Sports. 1 Hour.
Students in this class will learn the basic skills of throwing and catching flying discs. They can incorporate these techniques in the popular games of today including Ultimate, a team game similar to soccer that is very popular in college and university settings, and Disc Golf, one of the fastest growing individual sports of the day.

KIN 127. Running and Jogging. 1 Hour.
This course includes basic running and jogging instruction and training.

KIN 128. Rock Climbing. 1 Hour.
Introduction to the fundamentals of rock climbing. Lectures and drills designed to give students an introduction to the skills and knowledge to rock climb safely in a single pitch sport climbing environment.

KIN 129. Aikido. 1 Hour.
Series of techniques adapted to respond to a variety of attacks and to multiple attackers.

KIN 130. Scuba Diving. 1 Hour.
This course includes physiology, physics, safety issues, and guidelines of recreational scuba diving through lectures, quizzes, and final exams. Students will learn and be able to demonstrate the proper assembly and use of scuba equipment as well as proper swimming and breathing techniques. Students must provide their own snorkel, fins, and mask. Must be able to tread water for 10 minutes and swim 200 yards.

KIN 131. Aerobics. 1 Hour.
Opportunity to improve cardiovascular fitness, flexibility, muscular strength and endurance and body composition in a group setting. Improves rhythm and coordination, body and space awareness, energy management appreciation of a healthy lifestyle and mental focus and concentration.

KIN 132. Group Exercise Leadership. 1 Hour.
Review and application of exercise science theory to group exercise. Repertoire of exercise for flexibility, strength, aerobic dance, and step training. Practice teaching each segment of a class at end of course will be able to teach a 60 minute group exercise class.

Prerequisites: (KIN 115 [Min Grade: C] or PE 115 [Min Grade: C]) and (KIN 131 [Min Grade: C] or PE 131 [Min Grade: C])

KIN 133. Aerobic Training. 1 Hour.
The purpose of this course is to provide information and experiences in aerobic exercise training, heart rate monitoring, and fitness assessment.

KIN 134. The College Athlete: Concerns and Issues. 3 Hours.
Needs of and demands on college athletes. Time management, study skills and habits, drug use and abuse, drug testing and NCAA rules, use of trainer and training facilities, and nutritional practices. Holistic health with emphasis on keeping athletic experience in perspective. Does not count toward physical education major or minor.

KIN 136. Intro to Physical Education Fitness and Sport. 3 Hours.
Introduction to the fields; professional organizations, career opportunities, historical development, and philosophical and scientific foundations.

KIN 201. Officiating Techniques. 2 Hours.

KIN 206. Introduction to Teaching Physical Education. 3 Hours.
Research on teaching physical education and sociocultural influences on children as learners; development of basic teaching skills.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]

KIN 222. Concepts of Health and Fitness. 3 Hours.
Fitness and related health concepts. Fitness assessment, variety of fitness-related activities, and development of personal fitness program. Nutrition and cardiovascular health.

KIN 300. Organization and Administration of Physical Education. 3 Hours.
Development of skills required to organize and administer physical education programs.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]

KIN 305. Motor Development. 3 Hours.
Development of motor skills, physical fitness, and perceptual motor abilities across life span; concentration on preschool population. Students will be required to communicate effectively in writing the information obtained via assessment of the above elements of motor development. In addition, quantitative literacy will be assessed in terms of the student's ability to interpret the assessment data to plan appropriate physical activities.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]

KIN 307. Applied Kinesiology. 3 Hours.
Knowledge of anatomical terminology and analysis of internal muscular forces that act on bones resulting in motion at major movable joints. Identification and application of mathematical formulae to comprehend the external and internal biomechanical forces that occur in human movement.

Prerequisites: BY 115 [Min Grade: C] and (MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C] or MA 126 [Min Grade: C])

KIN 308. Adapted Physical Education. 3 Hours.
Prescription and planning physical activity for individuals with disabilities.

Prerequisites: ECY 300 [Min Grade: C] and (KIN 305 [Min Grade: C] or PE 305 [Min Grade: C]) and (KIN 136 [Min Grade: C] or PE 136 [Min Grade: C])

KIN 311. Elementary School Physical Education. 3 Hours.
Nature and content of a developmentally appropriate elementary physical education program.

Prerequisites: KIN 136 [Min Grade: C] or PE 136 [Min Grade: C] and KIN 305 [Min Grade: C] or PE 305 [Min Grade: C]
KIN 320. Fitness/Motor Skill Acquisition. 3 Hours.
Acquire the knowledge and the skills necessary to analyze and appropriately teach motor skills and design developmentally appropriate fitness activities for adolescents applicable to all physical activity settings (school and recreation. Admission to TEP.
Prerequisites: (KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]) and (KIN 305 [Min Grade: C] or PE 305 [Min Grade: C])

KIN 320L. Sports Skill Proficiency. 1 Hour.
This course will enable candidates to acquire the knowledge and the skills necessary to teach the critical elements needed to perform all basic sport skills. Candidates will demonstrate skill proficiency in the sport skills as well as the ability to teach others to perform the skills. Concurrent Enrollment in Fitness/Motor Skill Acquisition required. Physical Education Teacher Certification Students Only.
Prerequisites: KIN 305 [Min Grade: C] or PE 305 [Min Grade: C]

KIN 323. Techniques Teaching LIFE Skills in Sec. Schools. 3 Hours.
This course will enable candidates to learn techniques and strategies for teaching LIFE (Lifelong Individualized Fitness Education) skills typically covered in a high school physical education program.
Prerequisites: (KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]) and HE 141 [Min Grade: C]

KIN 400. Physiology of Exercise. 4 Hours.
Knowledge of acute and chronic physiological adaptations in response to a wide-range of exercise conditions. Includes clinical laboratory experiences.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])

KIN 402. Basic Athletic Training. 2 Hours.
Knowledge and skills in organization and administration, mechanisms of injury, recognition and evaluation of injuries, injury management, general nutritional concerns, medical conditions and taping and bracing techniques.
Prerequisites: BY 115 [Min Grade: C](Can be taken Concurrently) and KIN 136 [Min Grade: C](Can be taken Concurrently) or PE 136 [Min Grade: C] and (KIN 307 [Min Grade: C] or PE 307 [Min Grade: C])

KIN 403. Basic Therapy Management of Sports Injuries. 3 Hours.
Use of modalities and rehabilitation techniques to return injured athlete to athletic participation. Practical experience in the therapeutic management of sports injuries.
Prerequisites: KIN 402 [Min Grade: C] or PE 402 [Min Grade: C]

KIN 405. Sports Nutrition. 3 Hours.
Overview of current research on sources, functions, digestion, absorption and metabolism of nutrients and ergogenic aids relative to the athlete over the life cycle. HE 141 and NTR 222 strongly recommended.
Prerequisites: BY 116 [Min Grade: C]

KIN 407. Coaching Young Athletes. 3 Hours.
Acquire knowledge and understanding of the principles of coaching regarding sport psychology, sport pedagogy, sport physiology, and sports management.

KIN 409. Assessment in Physical Education. 3 Hours.
This course emphasizes the development, implementation, and analysis of assessments within K-12 physical education programs, including assessment of the cognitive, physical, and psychomotor domains including program assessment.
Prerequisites: KIN 320 [Min Grade: C] or PE 320 [Min Grade: C] and KIN 489 [Min Grade: C](Can be taken Concurrently)

KIN 440. Principles of Conditioning the Athlete. 3 Hours.
Isometric, isotonic, negative, variable resistance, and isokinetic training; tapering of athlete; constructing weight training programs; techniques of various types of exercise and weight training for specific sports.
Prerequisites: BY 115 [Min Grade: C] and (KIN 400 [Min Grade: C] or PE 400 [Min Grade: C])

KIN 450. Physical Activity for Individuals with Disabilities/SL. 3 Hours.
Knowledge and skills needed to meet the unique fitness and physical activity needs of individuals with various disabilities. Design and implementation of personal training/fitness programs and disability sports/recreation programs for individuals with disabilities based on assessments of health-related strengths and needs. This is a designated service-learning course integrating academic learning, civic learning, and meaningful service to the community.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])

KIN 451. Physical Activity for Senior Adults. 3 Hours.
Knowledge and skills needed to be a leader of exercise, dance, and fitness for older adults.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])

KIN 460. Clinical Exercise Physiology. 3 Hours.
The use of exercise as a form of treatment and prevention of chronic disease.
Prerequisites: BY 116 [Min Grade: C] and (HE 141 [Min Grade: C] or HPE 200 [Min Grade: C])

KIN 470. Advanced Treatment Athletic Training. 3 Hours.
Seminar in treatment and prevention.
Prerequisites: KIN 402 [Min Grade: C] or PE 402 [Min Grade: C]

KIN 485. Exercise Testing/Prescription. 3 Hours.
Knowledge and skill needed to perform pre-exercise health risk and physical fitness assessments interpret results and develop exercise prescriptions to apparently healthy individuals and individuals with medically controlled diseases (based on ‘American College of Sports Medicine’ guidelines). This course also includes a high level of review of exercise physiology and applied kinesiology, and application of behavioral and motivational strategies to support clients in adopting and maintaining healthy lifestyle behaviors.
Prerequisites: BY 115 [Min Grade: C] and BY 116 [Min Grade: C] and HE 140 [Min Grade: C] and (KIN 307 [Min Grade: C] or PE 307 [Min Grade: C]) and (KIN 400 [Min Grade: C] or PE 400 [Min Grade: C])

KIN 489. Instructional Strategy for Physical Education K-12. 6 Hours.
Various teaching methods and materials suitable for use in elementary (P-6) and secondary physical education (middle, junior high, or senior high) schools. Opportunities to apply methods and materials while working with elementary and secondary school students.
Prerequisites: KIN 320 [Min Grade: C] or PE 320 [Min Grade: C] and KIN 409 [Min Grade: C](Can be taken Concurrently)
KIN 492. Special Projects in Kinesiology. 1-6 Hour.
Designed as an independent study for students who wish to conduct an in-depth investigation into a physical education related topic.

KIN 493. Problems in Kinesiology. 3-6 Hours.
Provides students with current information regarding a selected physical education related issue. Classes taught under this course title are outside the current physical education program requirements.

KIN 495. Elementary/Secondary Physical Education Student Teaching. 9 Hours.
Capstone experience including observation and teaching of physical education to attain grades P-12 Alabama certification.

KIN 496. Physical Education Internship Seminar. 3 Hours.
Supports and extends efforts of student teaching. Problem solving related to situations such as classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship.

KIN 499. Fitness Internship. 3-6 Hours.
Takes place in a setting that is related to the degree and major area of emphasis and serves as the culminating experience of the formal education process. Students complete their internship hours with guidance from their agency supervisor.

Prerequisites: (KIN 485 [Min Grade: C] or PE 485 [Min Grade: C]) and (KIN 136 [Min Grade: C] or PE 136 [Min Grade: C]) and (KIN 400 [Min Grade: C] or PE 400 [Min Grade: C]) and (KIN 307 [Min Grade: C] or PE 307 [Min Grade: C])

**LCB-FLC in Business**

Courses

LCB 101. Dollars and Sense/SL. 3 Hours.
This anchor course will take a practical approach to introducing students to the very real issue of managing their finances in the college environment by engaging them in creating a lifetime financial plan as well as participating in a service learning project. Topics of this course include financial literacy and the mathematics of money. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.

LCB 102. Roadmap Professional Success. 3 Hours.
What is professionalism? What does it mean to be a professional? This course will use your experiences and define these difficult terms together. Then explore many aspects of professionalism including ethical decision making, communication, creative thinking, emotional intelligence, and expectations of professional standards. You will learn by practicing and helping others, guest speakers, readings, class discussions, and a variety of other learning tools. Open to all majors, this course is designed to help you now as you go through school and build your resume as well as after graduation as you BECOME a professional.

LCB 103. I Lead: Access Ldshp Potential. 3 Hours.
This anchor course will examine qualities of effective leaders and how leadership skills can affect everything from your personal relationships to your career development. Students will develop their own leadership goals and show specific plans to achieve these goals. Self assessment tools will be used in this course to help students identify what type of leadership qualities and characteristics they have.

LCB 104. Soc Media & Innovation in BUS. 3 Hours.
This anchor course will examine how social media can be used in innovative ways to promote successful business practices. Students will study the world of social media, how it affects consumer behavior, ethical considerations for businesses, and how technology has changed traditional business practices in a very short time.

LCB 105. Consumers Beware. 3 Hours.
This anchor course will examine how marketing strategies target different groups of consumers to influence their buying behavior. What are companies trying to get you to buy and are their methods successful? Students will look at marketing theories, research, consumer psychology, ethics, and current practices in business.

LCB 106. Global Perspective. 3 Hours.
This FLC will examine how understanding the global marketplace will be essential for students in the 21st century. This FLC is designed to start students on a path to develop a perspective that appreciates the complexities of international culture and business.

LCB 107. Developing the Leader Within. 3 Hours.
This course will examine qualities of leaders who inspire others to work together to succeed. The role of leadership in personal and professional development will be explored. Through self-assessment, students will learn to recognize their individual strengths and opportunities for improvement as leaders. Students will develop their own leadership goals and show specific plans to achieve these goals.

LCB 108. Ingenuity and Innovation. 3 Hours.
This course focuses on how to create innovative solutions to real marketplace problems. It has an experiential learning format that emphasizes open-minded inquiry to uncover unsolved problems and practical creativity to create solutions. Topics include creativity, ideation, environmental screening, idea evaluation and entrepreneurship.

**LING-Linguistics Courses**

Courses

LING 221. Introductory Descriptive Linguistics. 3 Hours.
Description and analysis of non-Western languages.
Prerequisites: EH 102 [Min Grade: C]

LING 260. Language and Culture. 3 Hours.
Nonverbal communication; language origins and acquisition; universals; language classification and processes of change; language as expression of cultural values and social structures; beginning componential and structural analysis.
Prerequisites: EH 102 [Min Grade: C]

LING 350. Introduction to Linguistics. 3 Hours.
Introduction to the scientific study of language with a main focus on principles underlying phonology, morphology, syntax and semantics. Relationship between language society, psycholinguistics and language typology may also be addressed.
Prerequisites: EH 301 [Min Grade: C]

LING 351. Structure of English. 3 Hours.
Description and analysis of present-day English grammar with particular attention paid to the structure of phrases, clauses and sentences, including parts of speech, coordination, subordination, tense, aspect, voice, grammatical functions, agreement and clause types.
Prerequisites: EH 201 [Min Grade: C]
LING 352. The Structure of English Words. 3 Hours.
Introduction to English vocabulary elements and word formation, including topics in history of English and sound patterns as these topics relate to word formation. Does not count as literature for Core Curriculum requirement.
Prerequisites: EH 102 [Min Grade: C]

LING 355. Introduction to Sociolinguistics. 3 Hours.
Social factors that play role in language usage and learning; emphasis on American English.
Prerequisites: EH 102 [Min Grade: C]

LING 356. Semantics. 3 Hours.
Meaning in language with reference to questions of synonymy, ambiguity, and language use.
Prerequisites: EH 102 [Min Grade: C]

LING 360. Phonology. 3 Hours.
Sound patterning of languages.
Prerequisites: EH 102 [Min Grade: C]

LING 393. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 102 [Min Grade: C]

LING 450. Advanced Grammar. 3 Hours.
Present-day English grammar.
Prerequisites: EH 250 [Min Grade: C] or EH 251 [Min Grade: C]

LING 451. Generative Grammar. 3 Hours.
Introduction to Chomskian linguistic theory. Knowing a language involves knowing an intricate set of rules; this course gives one approach to modeling this linguistic knowledge.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 452. Grammar and Usage for English Teachers. 3 Hours.
Overview of English grammar and usage, focusing on those topics that are presented in the classroom. Topics will include the difference between prescriptive and descriptive grammar, parts of speech, types of verbs, grammatical functions, agreement, sentence structure, tense, aspect, voice, finite clauses, nonfinite clauses, clause types. Focus also Reed-Kellogg sentence diagramming.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 453. History of the English Language. 3 Hours.
Overview of language evolution from Proto-Indo European to modern English dialects, including phonological shifts, dialectical distinctions, language families, and orthographical and syntactical changes.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 454. The Biology of Language. 3 Hours.
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 466. Computational Linguistics. 3 Hours.
Computational Linguistics.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 493. Special Topics in Linguistics. 3 Hours.
See class schedule for topic.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 494. Special Problems in Linguistics. 3 Hours.
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LING 495. Special Problems in Linguistics. 3 Hours.
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.
Prerequisites: EH 350 [Min Grade: C] and LING 350 [Min Grade: C] or EH 351 [Min Grade: C] and LING 351 [Min Grade: C]

LS-Legal Studies Courses

Courses

LS 246. Legal Environment of Business. 3 Hours.
This course is required for all students in the Collat School of Business. Students acquire a general knowledge of the legal environment of business.

LS 457. Business Law for Accountants. 3 Hours.
Legal forms of business organization, including partnerships and corporations. Commercial paper, especially negotiable instruments; sales under Uniform Commercial Code; other CPA examination material. Junior standing required.
Prerequisites: (LS 246 [Min Grade: C] and GPAT and GPAO 2.00) or (LS 246 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

LS 471. Legal Elements of Fraud Investigation. 3 Hours.
Key legal principles and courtroom procedures relevant to forensic accounting, and survey of related topics--criminal justice theories, evidence management, and litigation services.
Prerequisites: (LS 246 [Min Grade: C] and GPAT and GPAO 2.00) or (LS 246 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

LT-Foreign Literature English Courses

Courses

LT 420. World Literature I. 3 Hours.
Selections in translation from Greek, Latin, and Hebrew classics as well as other world literature, and from oral tradition.

LT 421. World Literature II. 3 Hours.
Selections in translation from world writers. Overview of a rotating selection of genres, texts, author, societies and regions of the world.

LT 425. French Literature in English Translation. 3 Hours.
Selections in translation from major Francophone writers. Overview of a rotating selection of genres texts and authors. Focus on the relevant questions of genre and on the French-speaking societies in which the works were produced.

LT 426. German Literature in English Translation. 3 Hours.
Selections in translation from major Spanish or Hispano-American writers. Overview of rotating selection of genres, texts, authors, and regions of the Hispanic World. Focus on the relevant questions of genre and on the German-speaking society in which the works were produced.
MA 102. Intermediate Algebra. 3 Hours.
Absolute values, Cartesian coordinates, graphs of linear equations, concept of a function, linear systems, algebra of polynomials, factoring of polynomials, algebra of rational expressions, literal equations, word problems involving linear, rational and quadratic models, integer and rational exponents, radical expressions, rational, radical and quadratic equations, complex numbers. Consists of one, mandatory, scheduled 50 minute lecture per week, plus one, mandatory, scheduled 50 minute lab meeting per week, plus 50 minutes of individually scheduled lab time per week. Quantitative Literacy is a significant component of this course. MA 102 section QL is an on-line version of MA 102 and is intended primarily for students who have job conflicts or live a long distance from the campus. There are no campus based meetings with the on-line class. However, students in the on-line version of MA 102 are required to interact with peers and the instructor through an on-line format and should be able to work independently and be motivated self-starters who are confident in their ability to master mathematics.
Prerequisites: MA 098 [Min Grade: P] or (A02 20 and HSCG 2.50) or A02 21 or (S02 480 and HSCG 2.50) or S02 500 or MAAD 15 or MA1 085 or MA 098 [Min Grade: C] or (SAT2 510 and HSCG 2.50) or SAT2 530

MA 105. Pre-Calculus Algebra. 3 Hours.
Functions from algebraic, geometric (graphical), and numerical points of view, including polynomial, rational, logarithmic, and exponential functions; inverse functions; systems of equations and inequalities; quadratic and rational inequalities; complex and real roots of polynomials; applications and modeling, both scientific and business. Supports development of quantitative literacy. Consists of one scheduled 50 minute lecture per week, plus one 50 minute scheduled lab meeting per week, plus 50 minutes of individually scheduled lab time per week. Attendance at the first day of class is mandatory. Attendance at the first lab meeting is mandatory. May not be enrolled in Undergraduate Certificate. Lecture, online at least 80%. Quantitative Literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 102 [Min Grade: C] or (A02 22 and HSCG 3.50) or (A02 23 and HSCG 3.00) or (A02 24 and HSCG 2.50) or (S02 520 and HSCG 3.50) or (S02 540 and HSCG 3.00) or (S02 560 and HSCG 2.50) or S02 580 or MAAD 21 or MA2 080 or A02 25 or (SAT2 550 and HSCG 3.50) or (SAT2 570 and HSCG 3.00) or (SAT2 580 and HSCG 2.50) or SAT2 600

MA 106. Pre-Calculus Trigonometry. 3 Hours.
Trigonometric functions (circular functions) and their inverses, graphs, and properties; right triangle trigonometry and applications; analytical trigonometry, trigonometric identities and equations; polar coordinates; complex numbers; laws of sines and cosines; conic sections. Supports development of quantitative literacy. Consists of one scheduled 50 minute lecture per week, plus one 50 minute scheduled lab meeting per week, plus 50 minutes of individually scheduled lab time per week. Attendance at the first day of class is mandatory. Attendance at the first lab meeting is mandatory. Quantitative Literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 105 [Min Grade: C] or (A02 25 and HSCG 3.50) or (A02 26 and HSCG 3.00) or A02 27 or (S02 580 and HSCG 3.50) or (S02 600 and HSCG 3.00) or S02 620 or MAC1 17 or MA3 080 or (SAT2 600 and HSCG 3.50) or (SAT2 620 and HSCG 3.00) or SAT2 640.
MA 107. Pre-Calculus Algebra and Trigonometry. 4 Hours.
Functions, their graphs and applications, including polynomial, rational, algebraic, exponential, logarithmic, and trigonometric functions. A fast-paced course designed as a review of the algebra and trigonometry needed in calculus. (MA107 is a combination of MA105 Pre-Calculus Algebra and MA106 Pre-Calculus Trigonometry taught in a single semester.) Satisfies core curriculum requirement in mathematics. Supports development of quantitative literacy. Consists of two scheduled 50 minute lectures per week, plus one 50 minute scheduled lab meeting per week, plus 50 minutes of individually scheduled lab time per week. Attendance at the first day of class is mandatory. Attendance at the first lab meeting is mandatory. Quantitative literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 102 [Min Grade: B] or (A02 24 and HSCG 3.50) or (A02 25 and HSCG 3.00) or (A02 26 and HSCG 2.50) or A02 27 or MAAD 21 or MA4 085 or (S02 560 and HSCG 3.50) or (S02 580 and HSCG 3.00) or (S02 600 and HSCG 2.50) or S02 620 or (SAT2 580 and HSCG 3.50) or (SAT2 600 and HSCG 3.00) or (SAT2 620 and HSCG 2.50) or SAT2 640

MA 110. Finite Mathematics. 3 Hours.
An overview of topics of finite mathematics and applications of mathematics for the liberal arts student. Topics include counting, permutations, combinations, basic probability, conditional probability, descriptive statistics, binomial and normal distributions, statistical inference, and additional selected topics. Students construct models of problem situations, translate verbal descriptions into mathematical form, interpret and create schematic representations of mathematical relationships, use quantitative evidence as a basis for reasoning, argument, and drawing conclusions, and communicate their results to an audience appropriately. May not be enrolled in Undergraduate Certificate. Quantitative Literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 102 [Min Grade: B] or (A02 24 and HSCG 3.50) or (A02 25 and HSCG 3.00) or (A02 26 and HSCG 2.50) or A02 27 or MAAD 21 or MA4 085 or (S02 560 and HSCG 3.50) or (S02 580 and HSCG 3.00) or (S02 600 and HSCG 2.50) or S02 620 or (SAT2 580 and HSCG 3.50) or (SAT2 600 and HSCG 3.00) or (SAT2 620 and HSCG 2.50) or SAT2 640

MA 120. Introduction to Symbolic Logic. 3 Hours.
Modern theory of deductive inference. Emphasis on recognizing valid forms of reasoning. Truth-function theory and some concepts of one-variable quantification theory. May not be used to satisfy Core Curriculum requirement in mathematics.
Prerequisites: MA 104 [Min Grade: C] or MA 109 [Min Grade: C] or MA 102 [Min Grade: C] or (A02 20 and HSCG 2.00) or A02 21 or (S02 480 and HSCG 2.00) or S02 500 or MAAD 15 or MA1 085 or (SAT2 510 and HSCG 2.00) or SAT2 530

MA 125. Calculus I. 4 Hours.
Limit of a function; continuity, derivatives of algebraic, trigonometric exponential, and logarithmic functions, application of derivative to extremal problems, optimization, and graphing; Newton method; the definite integral and its application to area problems; fundamental theorem of integral calculus, average value, and substitution rule. Quantitative literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or (A02 25 and HSCG 3.50) or (A02 26 and HSCG 3.00) or A02 27 or (S02 580 and HSCG 3.50) or (S02 600 and HSCG 3.00) or S02 620 or MAC2 16 or MA5 080 or (SAT2 600 and HSCG 3.50) or (SAT2 620 and HSCG 3.00) or SAT2 640

MA 126. Calculus II. 4 Hours.
Techniques of integration; applications in integration such as volume, arc length and work; infinite series, Taylor series; polar coordinates; parametric equations; plane and space vectors; lines and planes in space. Quantitative Literacy is a significant components of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C]

MA 180. Introduction to Statistics. 3 Hours.
Descriptive and inferential statistics, probability distributions, estimation, hypothesis testing. Recommended that 2 years of high school algebra or MA102 has been completed before taking course. Quantitative Literacy is a significant component of this course.
Prerequisites: MA 102 [Min Grade: C] or MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 125 [Min Grade: C]

MA 224. Intermediate Symbolic Logic. 3 Hours.
Full development of quantification theory, including identity and definite description, and soundness and completeness proofs. Skill in formal proof emphasized, as well as ability to express arguments from natural language in artificial language.
Prerequisites: MA 120 [Min Grade: C] or PHL 220 [Min Grade: C]

MA 225. Calculus I - Honors. 4 Hours.
Limit of a function; continuity, derivatives of algebraic, trigonometric exponential, and logarithmic functions, application of derivative to extremal problems, optimization, and graphing; Newton method; the definite integral and its application to area problems; fundamental theorem of integral calculus, average value, and substitution rule. Students will be required to display an in-depth understanding of these topics through a complete justification of their work on tests and through participation in class projects. Quantitative literacy is a significant component of this course.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or (A02 25 and HSCG 3.50) or (A02 25 and HSCG 3.50) or A02 27 or (S02 580 and HSCG 3.50) or (S02 600 and HSCG 3.00) or MAC2 16 or MA5 080

MA 226. Calculus II - Honors. 4 Hours.
Techniques of integration; applications in integration such as volume, arc length and work; infinite series, Taylor series; polar coordinates; parametric equations; plane and space vectors; lines and planes in space. Quantitative Literacy is a significant component of this course.
Prerequisites: MA 225 [Min Grade: C]

MA 227. Calculus III. 4 Hours.
Vector functions, functions of two or more variables, partial derivatives, quadric surfaces, multiple integration and vector calculus, including Greens Theorem, curl and divergence, surface integrals, and Gauss' and Stokes' Theorem. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]
MA 252. Introduction to Differential Equations. 3 Hours.
First order differential equations (separable, linear, exact, and additional non-linear examples using MAPLE), modeling with first order DE's, examples of systems of first order DE's, theory of higher order linear DE's (homogeneous and non-homogeneous, superposition of solutions, linear independence and general solutions, initial and boundary value problems), solution of constant coefficient homogeneous linear equations, variation of parameters and Green’s functions with complicated cases done using MAPLE. Modeling projects in the course will emphasize the use of MAPLE to do the heavy lifting.
Quantitative Literacy and Writing are significant components of this course. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 260. Introduction to Linear Algebra. 3 Hours.
Linear equations and matrices; real vector spaces, basis, diagonalization, linear transformations; determinants, eigenvalues, and eigenvectors; inner product spaces, matrix diagonalization; applications and selected additional topics. MA 260 and MA 434 may not both be counted toward the major or minor. This course meets the Core Curriculum requirements for Area III: Mathematics.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 265. Math Tools for Engineering Problem Solving. 4 Hours.
An applied mathematics course designed to utilize the terminology and problem-solving approaches inherent to engineering, while completing the mathematical preparation of most engineering students. This course includes elements of MA 227 and MA 252.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 268. Introduction to Mathematical Biology. 3 Hours.
This course, designed at the interface of several disciplines, targets undergraduate students in biology, mathematics, and engineering. We will review the biology of problems that arise in nature and medicine and study the mathematics that allows us to tackle these problems. This course serves as an introduction, by example, to multivariable calculus, discrete and continuous differential equations in one or more variables, vectors, matrices, linear and non-linear dynamical systems, and basic concepts of chaos. Biological topics may include single species and interacting population dynamics, modeling infectious and dynamic diseases, regulation of cell function, molecular interactions and receptor-ligand binding, biological oscillators, and an introduction to biological pattern formation. There will also be discussions of current topics of interest such as tumor growth and angiogenesis, HIV and AIDS, and control of the mitotic clock.
Prerequisites: MA 126 [Min Grade: C]

MA 298. Research in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics. Freshman or sophomore standing recommended.
Prerequisites: Permission of instructor.

MA 311. History of Mathematics I. 3,4 Hours.
Development of mathematical principles and ideas from an historical viewpoint, and their cultural, educational and social significance.
Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C]

MA 312. History of Mathematics II. 3 Hours.
Development of mathematical principles and ideas from an historical viewpoint, and their cultural, educational and social significance.
Prerequisites: MA 311 [Min Grade: C]

MA 313. Patterns, Functions and Algebraic Reasoning. 3 Hours.
Problem solving experiences, inductive and deductive reasoning, patterns and functions, some concepts and applications of geometry for elementary and middle school teachers. Topics include linear and quadratic relations and functions and some cubic and exponential functions. Number sense with the rational number system including fractions, decimals, and percents will be developed in problem contexts. An emphasis will be on developing algebraic thinking and reasoning. Enrollment in the School of Education or permission of instructor. Recommended that two years of high school algebra or MA 102 has been completed before taking course.
Prerequisites: MA 102 [Min Grade: C]

MA 314. Geometric and Proportional Reasoning. 3 Hours.
Problem solving experiences, inductive and deductive reasoning, concepts and applications of geometry and proportional reasoning. Topics include analysis of one-, two- and three-dimensional features of real objects, ratio and proportionally, similarity, and congruence, linear, area, and volume measurement, and the development of mathematically convincing arguments. An emphasis will be on developing geometric and proportional thinking and reasoning.
Prerequisites: MA 313 [Min Grade: C]

MA 315. Probabilistic and Statistical Reasoning. 3 Hours.
Descriptive and inferential statistics, probability, estimation, hypothesis testing. Reasoning with probability and statistics is emphasized.
Prerequisites: MA 313 [Min Grade: C]

MA 316. Numerical Reasoning. 3 Hours.
Develop an understanding of number and improve numerical reasoning skills specifically with regard to place value, number relationship that build fluency with basis facts, and computational proficiency; developing a deep understanding of numerous diverse computational algorithms; mathematical models to represent fractions, decimals and percents, equivalencies and operations with fractions, decimals and percents; number theory including order of operations, counting as a big idea, properties of number, primes and composites, perfect, abundant and significant numbers, and figurate numbers; inductive and deductive reasoning with number.
Prerequisites: MA 313 [Min Grade: C]

MA 317. Extending Algebraic Reasoning. 3 Hours.
Extension of algebraic and functional reasoning to polynomials, rational, exponential, and logarithmic functions; problem-solving involving transfer among representations (equation, graph, table); proof via symbolic reasoning, contradiction, and algorithm; interpretation of key points on graphs (intercepts, slope, extrema); development of facility and efficiency in manipulating symbolic representations with understanding; appropriate use of technology and approximate versus exact solutions; functions as models.
Prerequisites: MA 313 [Min Grade: C]

MA 360. Scientific Programming. 3 Hours.
This course is designed to provide the computational skills needed to attempt serious scientific computational tasks. Computers and floating point arithmetic; the GNU/Linux operating system and an introduction to the compiled programming languages FORTRAN (including FORTRAN 95) and C++ in the context of solving systems of linear equations and differential equations arising from practical situations; use of debuggers and other debugging techniques, and profiling; use of callable subroutine packages like LAPACK and differential equation routines; parallel programming a Beowulf system with MPI; introduction to Matlab.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]
MA 361. Mathematical Modeling. 3 Hours.
Mathematical modeling using computer software, including spreadsheets, systems dynamics software, and computer algebra systems; connections to calculus and functions are emphasized. Students make presentations to the class; justification of mathematical claims and quality of student presentations are assessed. Quantitative Literacy is a significant component of this course.
Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C]

MA 398. Research in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Junior standing recommended. Permission of instructor required.

MA 411. Integrating Mathematical Ideas. 3 Hours.
This course will integrate ideas from algebra, geometry, probability, and statistics. Emphasis will be on using functions as mathematical models, becoming fluent with multiple representations of functions, and choosing the most appropriate representations for solving a specific problem. Students will be expected to communicate mathematics verbally and in writing through small group, whole group, and individual interactions.
Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C] and MA 314 [Min Grade: C] or MA 315 [Min Grade: C] or MA 316 [Min Grade: C] or MA 317 [Min Grade: C]

MA 418. Statistics for Teachers. 3 Hours.
Descriptive and inferential statistics, probability distributions, estimation, hypotheses testing, regression. Writing assignment on a project drawing from the above topics. Recommended that 2 years of high school algebra or MA 102 has been completed before taking course. Quantitative Literacy is a significant component of this course.
Prerequisites: MA 102 [Min Grade: D]

MA 419. Special Topics. 1-4 Hour.
Topics vary; may be repeated for credit.
Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C]

MA 434. Algebra I: Linear. 3 Hours.
Abstract vector spaces, subspaces, dimension bases, linear transformations, matrix algebra, matrix representations of linear transformations, determinants. MA 260 and MA 434 may not both be counted toward the minor.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 435. Algebra II: Modern. 3 Hours.
Rings, including the rings of integers and of polynomials, integral domains, fields and groups. Homomorphism, isomorphism. As time permits, Galois theory, semi-groups, quotient groups, models, or other areas of algebra may be included. Students present proofs from a list of pre-assigned theorems to the class. Logical correctness and proper mathematical proof-writing style are assessed.
Prerequisites: MA 434 [Min Grade: C] or MA 260 [Min Grade: C]

MA 440. Advanced Calculus I. 3 Hours.
Real numbers, sequences and series, continuity, differential and integral calculus, exponential and logarithm functions, sine and cosine functions. Students present proofs from a list of pre-assigned theorems to the class. Written versions of the proofs are posted for easy access in subsequent proofs. Logical correctness and proper mathematical proof-writing style are assessed. Writing and Quantitative Literacy are significant components of the course.
Prerequisites: MA 227 [Min Grade: C]

MA 441. Advanced Calculus II. 3 Hours.
Real numbers, sequences and series, continuity, differential and integral calculus, exponential and logarithm functions, sine and cosine functions. Students present proofs from a list of pre-assigned theorems to the class. Written versions of the proofs are posted for easy access in subsequent proofs. Logical correctness and proper mathematical proof-writing style are assessed. Writing and Quantitative Literacy are significant components of the course.
Prerequisites: MA 440 [Min Grade: C]

MA 444. Vector Analysis. 3 Hours.
Review and application of multiple integrals; Jacobians and change of variables in multiple integrals; line and surface integrals; Green, Gauss, and Stokes theorems, with applications to physical sciences and computation in spherical and cylindrical coordinates.
Prerequisites: MA 227 [Min Grade: C]

MA 445. Complex Analysis. 3 Hours.
Analytic functions, complex integration and Cauchy's theorem, Taylor and Laurent series, calculus of residues and applications, conformal mappings.
Prerequisites: MA 227 [Min Grade: C]

MA 453. Transforms. 3 Hours.
Theory and applications of Laplace and Fourier transforms.
Prerequisites: MA 252 [Min Grade: C]

MA 454. Intermediate Differential Equations. 3 Hours.
Topics from among Frobenius series solutions, Sturm-Liouville systems, nonlinear equations, and stability theory.
Prerequisites: MA 252 [Min Grade: C]

MA 455. Partial Differential Equations I. 3 Hours.
Classification of second order partial differential equations; background on eigenfunction expansions and Fourier series; integrals and transforms; solutions of the wave equations, reflection of waves; solution of the heat equations in bounded and unbounded media; Laplace's equation, Dirichlet and Neumann problems. Written project reports required. Quantitative Literacy and Writing are significant components of this course.
Prerequisites: MA 252 [Min Grade: C]

MA 456. Partial Differential Equations II. 3 Hours.
Classification of second order partial differential equations; background on eigenfunction expansions and Fourier series; integrals and transforms; solutions of the wave equations, reflection of waves; solution of the heat equation in bounded and unbounded media; Laplace's equation, Dirichlet and Neumann problems.
Prerequisites: MA 455 [Min Grade: C]

MA 461. Modeling with Partial Differential Equations. 3 Hours.
Practical examples of partial differential equations; derivation of partial differential equations from physical laws; introduction to MATLAB and its PDE Tool-box, and COMSOL using practical examples; an overview of finite difference and finite element solution methods; specialized modeling projects in topics such as groundwater modeling, scattering of waves, medical and industrial imaging, continuum mechanics and deformation of solids, Fluid mechanics including the class boat race, financial derivative modeling, and acoustic and electromagnetic wave applications. Written project reports required for all homework assignments. Quantitative Literacy and Writing are significant components of this course.
Prerequisites: MA 252 [Min Grade: C]
MA 462. Intro to Stochastic Differential Equations. 3 Hours.
Stochastic differential equations arise when random effects are introduced into the modeling of physical systems. Topics include Brownian motion and Wiener processes, stochastic integrals and the Ito calculus, stochastic differential equations, and applications to financial modeling, including option pricing.
Prerequisites: MA 485 [Min Grade: C]

MA 463. Operations Research I. 3 Hours.
Mathematical techniques and models with application in industry, government and defense. Topics usually chosen from dynamic, linear, and nonlinear programming; decision theory; Markov chains; queuing theory; inventory control; simulation; network analysis; and selected case studies.
Prerequisites: MA 227 [Min Grade: C]

MA 464. Operations Research II. 3 Hours.
Mathematical techniques and models with application in industry, government, and defense. Topics usually chosen from dynamic, linear, and nonlinear programming; decision theory; Markov chains; queuing theory; inventory control; simulation; network analysis; and selected case studies.
Prerequisites: MA 463 [Min Grade: C]

Review of difference methods for ordinary differential equations, including Runge-Kutta, multi-step, adaptive stepping, and stiffness; finite difference versus finite element; elliptic boundary value problems, iterative solution methods, self-adjoint elliptic problems; parabolic equations, including consistency, stability, and convergence, Crank-Nicolson method, method of lines; first order hyperbolic systems and characteristics, Lax-Wendroff schemes, method of lines for hyperbolic equations.
Prerequisites: MA 360 [Min Grade: C] and MA 455 [Min Grade: C]

MA 467. Gas Dynamics. 3 Hours.
Euler's equations for inviscid flows, rotation and vorticity, Navier-Stokes equations for viscous flows, hyperbolic equations and characteristics, rarefaction waves, shock waves and entropy conditions, the Riemann problem for one-dimensional gas flows, numerical schemes.
Prerequisites: MA 252 [Min Grade: C] and MA 360 [Min Grade: C]

MA 468. Numerical Analysis. 3 Hours.
Prerequisites: MA 227 [Min Grade: C] or MA 252 [Min Grade: C]

MA 469. Numerical Analysis II. 3 Hours.
Prerequisites: MA 468 [Min Grade: C]

MA 470. Differential Geometry I. 3 Hours.
Theory of curves and surfaces: Frenet formulas for curve, first and second fundamental forms of surface; global theory; abstract surfaces, manifolds, Riemannian geometry.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 471. Differential Geometry II. 3 Hours.
Theory of curves and surfaces: Frenet formulas for curve, first and second fundamental forms of surface; global theory; abstract surfaces, manifolds, Riemannian geometry.
Prerequisites: MA 470 [Min Grade: C]

MA 472. Geometry I. 3 Hours.
The axiomatic method; Euclidean geometry including Euclidean constructions, basic analytic geometry, transformational geometry, and Klein's Erlangen Program. Students present proofs from a list of pre-assigned theorems to the class. Logical correctness and proper mathematical proof-writing style are assessed.
Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C]

MA 473. Geometry II. 3 Hours.
Analytical geometry, Birkhoff's axioms, and the complex plane; structure and representation of Euclidean isometries; plane symmetries; non-Euclidean(hyperbolic) geometry and non-Euclidean transformations; fractal geometry; algorithmic geometry. Course integrates intuition/exploration and proof/explanation.
Prerequisites: MA 472 [Min Grade: C] and (MA 260 [Min Grade: C] or MA 434 [Min Grade: C])

MA 474. Introduction to Topology I. 3 Hours.
Essence and consequences of notion of continuous function developed. Topics include metric spaces, topological spaces, compactness, connectedness, and separation.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 475. Introduction to Topology II. 3 Hours.
Essence and consequences of notion of continuous function developed. Topics include metric spaces, topological spaces, compactness, connectedness, and separation.
Prerequisites: MA 474 [Min Grade: C]

MA 480. Introduction to Statistics. 3 Hours.
Descriptive and inferential statistics, probability distributions, estimation, hypothesis testing. Recommended that two years of high school algebra or MA 102 has been completed before taking course.

MA 481. Probability. 3 Hours.
Prerequisites: (MA 434 [Min Grade: C] or MA 435 [Min Grade: C] or MA 260 [Min Grade: C]) and (MA 485 [Min Grade: C] or MA 585 [Min Grade: C])

MA 485. Probability. 3 Hours.
Probability spaces, combinatorics, conditional probabilities and independence, Bayes rule, discrete and continuous distributions, mean value and variance, moment generation function, joint distributions, correlation, Central Limit Theorem, Law of Large Numbers, random walks, Poisson process.
Prerequisites: MA 126 [Min Grade: C] or MA 226 [Min Grade: C]

MA 486. Mathematical Statistics. 3 Hours.
Sampling techniques and data analysis, Simulation, Point estimation, Confidence intervals, Sufficient statistics, Rao-Cramer lower bound, Tests for binomials, Tests for normals, Goodness-of-_t test, Contingency tables, Two factor analysis, Regression, Order statistics, Nonparametric methods: Wilcoxon test, Run test, and Kolmogorov-Smirnov test. A computer project that involves a written report. Quantitative Literacy and Writing are significant components of this course.
Prerequisites: MA 485 [Min Grade: C]
MA 490. Mathematics Seminar. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites Permission of instructor.

MA 491. Special Topics in Mathematics. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 492. Special Topics in Mathematics. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 493. Special Topics in Mathematics. 1-3 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 494. Special Topics in Mathematics. 1-6 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 495. Special Topics in Mathematics. 1-6 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 496. Special Topics in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics.

MA 497. Research Methods in Mathematics. 3 Hours.
Through experience in designing and carrying out investigations, learn how scientists and mathematicians gain knowledge, evaluate scientific and mathematical claims when they conduct, and design and carry out investigations to answer new questions. Work is closely coordinated with the work of students from other content disciplines so that students see the similarity and differences of research methods in their own field as compared with those of science and mathematics inquiry as a whole. Enrollment in UABTeach is required. Prerequisites: MA 125 [Min Grade: C] or MA 225 [Min Grade: C]

MA 498. Research in Mathematics. 1-12 Hour.
This course covers special topics in mathematics and the applications of mathematics. May be repeated for credit when topics vary. Prerequisites vary with topics. Senior standing recommended.

MA 499. Honors Research in Mathematics. 1-12 Hour.
Mentored research in mathematics leading to a written research report and a public presentation in the form of a talk or poster. Admission restricted to students admitted to Honors in Mathematics. Permission of instructor required.

ME-Mechanical Engineering Courses

Courses

ME 011. Coop/Internship in ME. 0 Hours.
Engineering workplace experience in preparation for the student's intended career.

ME 102. Engineering Graphics. 2 Hours.
Basic concepts in technical sketching, computer-aided drawing and design, projections, sections, and dimensioning. Prerequisites: MA 105 [Min Grade: C](Can be taken Concurrently) or MA 106 [Min Grade: C](Can be taken Concurrently) or MA 107 [Min Grade: C](Can be taken Concurrently) or MA 125 [Min Grade: C](Can be taken Concurrently)

ME 103. Drawing, Design and Measurement for Industrial Distribution. 3 Hours.
Technical sketching and reading of engineering drawings and analysis of systems involving human performance. For non-engineering majors. Not available for credit toward engineering major.

ME 215. Dynamics. 3 Hours.

ME 241. Thermodynamics I. 3 Hours.
Thermodynamic definitions, properties of a pure substance, ideal, and real gases, work, and heat. Fundamental laws of thermodynamics, entropy, reversible cycles, and irreversibility. Prerequisites: PH 221 [Min Grade: C] and CH 115 [Min Grade: C] and CH 116 [Min Grade: C] and MA 126 [Min Grade: C](Can be taken Concurrently)

ME 242. Thermodynamics II. 3 Hours.
Application of thermodynamic principles to engineering systems; vapor power cycles; gas turbine cycles; Otto and Diesel cycles; refrigeration cycles; mixtures of ideal gases; psychrometrics. Prerequisites: ME 241 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C])

ME 251. Introduction to Thermal Sciences. 2 Hours.
Introduction to thermodynamics and heat transfer for non-mechanical engineering majors. Prerequisites: MA 126 [Min Grade: C] and PH 221 [Min Grade: C]

ME 302. Overview of Mechanical Components. 3 Hours.
An introduction to statics, dynamics, strength of materials, and engineering design. Transformation of energy, thermodynamics, heat transfer, and fluid mechanics. For non-engineering majors. Not available for credit toward engineering major.

ME 321. Introduction to Fluid Mechanics. 3 Hours.
Fundamentals of heat transfer and their application to practical problems, including steady and transient heat conduction, external and internal forced convection, natural convection and radiation. Prerequisites: ME 321 [Min Grade: C]
ME 360. Introduction to Mechatronic Systems Engineering. 3 Hours.
Prerequisites: ME 215 [Min Grade: C] and ME 364 [Min Grade: C]

ME 361. Thermo-Fluids Systems. 3 Hours.
Pressure, temperature, fluid flow, and heat transfer instrumentation and their application to measurements of mass, heat, and momentum transport, flow characterization, heat engine and refrigeration cycles, and other thermal-fluids experiments. Experimental uncertainty analysis. Writing proficiency is required. ME 361L must be taken concurrently.
Prerequisites: ME 242 [Min Grade: C](Can be taken Concurrently) and ME 322 [Min Grade: C](Can be taken Concurrently)

ME 361L. Thermo-Fluids Systems Laboratory. 0 Hours.
Lab component for ME 361 Thermo-Fluids Systems. ME 361 must be taken concurrently.

ME 364. Linear Algebra and Numerical Methods. 3 Hours.
Linear equations and matrices, real vector bases, matrix decompositions, linear transformations; determinants, eigenvalues, eigenvectors; numerical methods for linear systems of equations, integration, ordinary differential equations; approximation, interpolation, least squares fits. Prerequisites: MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C])

ME 370. Kinematics and Dynamics of Machinery. 3 Hours.
Displacement, velocity and acceleration analysis, synthesis and design of linkages and mechanisms for various engineering applications on the basis of motion requirements. Static and dynamic force analysis of linkages, balancing of rotors and reciprocating machines. Significant consideration is given to designing geometry of gear sets: spur, helical, worm, and bevel gears. Analysis of planetary sprocket sets and drivetrains completes the course. Computer workshops support the learning process of main technical components. Prerequisites: ME 102 [Min Grade: C] and ME 215 [Min Grade: C]

ME 371. Machine Design. 3 Hours.
Body stress, deflection and fatigue strength of machine components. Failure theories, safety factors and reliability, surface damage. Application to the design of gears, shafts, bearings, welded joints, threaded fasteners, belts and chains, keys, pins, springs, as well as mechanical design and selection of other machine components. Software applications, design projects, and exposure to hardware and systems are used to reinforce concepts. Prerequisites: CE 220 [Min Grade: C] and (BME 150 [Min Grade: C] or EGR 150 [Min Grade: C]) and ME 370 [Min Grade: C]

ME 405. Manufacturing Processes. 3 Hours.
Processing of metals, glasses, ceramics, and composites. Power processing, casting, welding, rapid solidification, and other advanced methods. Prerequisites: MSE 280 [Min Grade: C] and CE 220 [Min Grade: C] and MA 125 [Min Grade: C]

ME 411. Intermediate Fluid Mechanics. 3 Hours.
Applications of fluid dynamic principles to engineering flow problems such as turbo-machinery flow and one-dimensional compressible flow. Vorticity, potential flow, viscous flow, Navier-Stokes solutions, and boundary layers. Prerequisites: ME 321 [Min Grade: C] and ME 364 [Min Grade: C]

ME 421. Introduction to Computational Fluid Dynamics Basics. 3 Hours.
Governing equations for fluid flows, classifications of flow regimes, and approaches to analyze fluid flow problems. Introduction to Computational Fluid Dynamics (CFD), mesh generation, boundary conditions, numerical solution of equations governing fluid flows, and visualization. Hands-on exercises using a commercial CFD solver. Prerequisites: ME 321 [Min Grade: C]

ME 430. Vehicular Dynamics. 3 Hours.
Introduction to the fundamentals of mechanics and analytical methods for modeling vehicle dynamics and performance. Topics include tire-road interaction modeling, vehicle longitudinal dynamics and traction performance, lateral dynamics, handling, stability of motion and rollover, as well as contribution of the drivetrain system, steering system and suspension configurations to the dynamics of a vehicle. Software applications, projects, and exposure to hardware and systems are used to reinforce concepts. Prerequisites: ME 215 [Min Grade: C]

ME 445. Combustion. 3 Hours.
Evaluation of the impact of fuel characteristics and operating conditions on the performance of coal-fired electric utility steam-raising plant and the prospects for continued reliance on coal as fuel for electric power generation. The phenomena emphasized are the behavior of turbulent jets; ignition, devolatilization and combustion of coal particles; radiative heat transfer and the effect of ash deposits on heat transfer; formation of air pollutants and their removal from combustion products; integrated gasification combined cycle; and capture and sequestration of carbon dioxide. Prerequisites: ME 242 [Min Grade: C] and ME 322 [Min Grade: C]

ME 448. Internal Combustion Engines. 3 Hours.
Fundamentals of reciprocating internal combustion engines: engine types, engine components, engine design and operating parameters, thermo-chemistry of fuel-air mixtures, properties of working fluids, ideal models of engine cycles, engine operating characteristics, gas-exchange processes, fuel metering, charge motion within the cylinder, combustion in spark-ignition and compression ignition engines. Software applications, projects, and exposure to hardware and systems are used to reinforce concepts. Prerequisites: ME 215 [Min Grade: C] and ME 242 [Min Grade: C]

ME 449. Power Generation. 3 Hours.
Application of thermodynamics, fluid mechanics, and heat transfer to conversion of useful energy. Includes terrestrial and thermodynamic limitations, fossil fuel power plants, renewable energy sources, and direct energy conversion. Prerequisites: ME 242 [Min Grade: C]

ME 454. Heating, Ventilating and Air Conditioning. 3 Hours.
Fundamentals and practice associated with heating, ventilating, and air conditioning; study of heat and moisture flow in structures, energy consumption, and design of practical systems. Prerequisites: ME 322 [Min Grade: C]
ME 455. Thermal-Fluid Systems Design. 3 Hours.
Comprehensive design problems requiring engineering decisions and
code/Standard compliance. Emphasis on energy system components:
piping networks, pumps, heat exchangers. Includes fluid transients and
system modeling.
Prerequisites: ME 322 [Min Grade: C]

ME 461. Mechanical Systems. 3 Hours.
This course concentrates on main technical principles and aspects of
mechanical systems design. The course also provides fundamental
knowledge on test equipment and experimental techniques for
experimenting on main technical principles of mechanical design. This
course discusses data acquisition systems and signal conditioning, and
design of experiments. Writing proficiency is required. ME 461L must be
taken concurrently.
Prerequisites: CE 220 [Min Grade: C] and ME 215 [Min Grade: C]

ME 461L. Mechanical Systems Laboratory. 0 Hours.
Lab Component of ME 461 Mechanical Systems. ME 461 must be taken
concurrently.

ME 464. Introduction to Finite Element Method. 3 Hours.
Concepts and applications of finite element method. Development and
applications of basic elements used in engineering mechanics. Use of
finite element analysis software. Application of finite element concept to
several areas of mechanics.
Prerequisites: CE 220 [Min Grade: C]

ME 475. Mechanical Vibrations. 3 Hours.
Development of equations of motion for free and forced single-degree-of
freedom (SDOF) systems. Multi-degree-of-freedom systems. Transient
response, support motion and vibration isolation for SDOFs. Vibration
absorbers, generalized mass and stiffness, orthogonality of normal
modes, and root solving and Gauss elimination procedures. Chelosky
decomposition and Jacobi diagonalization methods.
Prerequisites: (MA 227 [Min Grade: C] and MA 252 [Min Grade: C] or
EGR 265 [Min Grade: C]) and ME 215 [Min Grade: C]

ME 476. Failure Analysis. 3 Hours.
Procedures for failure analysis, failure mechanisms, examples of service
failures, and methods to prevent failures.
Prerequisites: MSE 280 [Min Grade: C] and CE 220 [Min Grade: C]

ME 477. Systems Engineering. 3 Hours.
Exposure to the field of systems engineering, mission design,
requirements development, trade studies, project life cycle, system
hierarchy, risk analysis, cost analysis, team organization, design
fundamentals, work ethics, compare and evaluate engineering
alternatives, systems thinking.

ME 478. Automated Manufacturing. 3 Hours.
Introduction to automated manufacturing technology. Components of
automated systems (controllers, sensors and actuators) and automated
manufacturing sub-systems (3D printer, CNC, robot and computer vision)
will be studied in a lecture/lab environment with hands on activities.
Prerequisites: ME 102 [Min Grade: C] and EGR 150 [Min Grade: C]

ME 489. Undergraduate Research in Mechanical Engineering. 0
Hours.
Undergraduate research experiences in mechanical engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C] or
EGR 100 [Min Grade: C] or EGR 200 [Min Grade: C]) and MA 125 [Min
Grade: C] and PH 221 [Min Grade: C][Can be taken Concurrently]

ME 490. Special Topics in (Area). 1-4 Hour.
Special Topics in (Area).

ME 491. Individual Study in (Area). 1-4 Hour.
Individual Study in (Area).

ME 494. Mechanical Engineering Seminar. 1 Hour.
Required for ME undergraduate Honors Program students. Presentations
by students, faculty, and guests regarding current research.

ME 496. Honors Research. 1-6 Hour.
Research opportunities for undergraduate students in the Mechanical
Engineering Honors Program.
Prerequisites: EGR 301 [Min Grade: P]

ME 498. Capstone Design Project I. 3 Hours.
Capstone design project: interdisciplinary design teams, ethics, materials
selection, design process, development of proposal, project planning
and scheduling, project execution and resource scheduling, and
communication of design.
Prerequisites: ME 371 [Min Grade: C] and MSE 401 [Min Grade: C]
(Can be taken Concurrently) or ME 405 [Min Grade: C][Can be taken
Concurrently]

ME 499. Capstone Design Project II. 3 Hours.
Continuation of ME 498. Capstone interim and final design reviews with
written and oral reports. ME 498 must be taken the term immediately
before ME 499.
Prerequisites: ME 498 [Min Grade: C]

MESC-Marine Environmental Sci Courses

Courses

MESC 106. Introduction to Oceanography. 4 Hours.
General introduction to the physics, chemistry, geology, and biology of the
ocean. Lecture, laboratory, and field trips.

MESC 128. Ocean Science. 4 Hours.
Marine environment and relation of ocean to man. Lecture, laboratory,
and field work. For non-science majors. Does not count towards the
biology major or minor. General elective credit only.

MESC 201. Oceanology of the Gulf of Mexico. 2 Hours.
Descriptive study of the oceanology of the Gulf of Mexico and adjacent
waters, including coastal zone, continental shelf, and deep ocean.

MESC 204. Coastal Geomorphology. 2 Hours.
Shape and land forms along coast; factors determining formation. Lecture
and lab.

MESC 206. Marine Biology. 4 Hours.
Invertebrates, vertebrates, and marine plants. Lecture, laboratory, and
field work. Permission of instructor required.
Prerequisites: BY 124 [Min Grade: D]

MESC 207. Commercial Marine Fisheries of Alabama. 2 Hours.
Biological, harvest techniques, processing, and economic value of local
commercial species.

MESC 208. Biology and Conservation of Marine Turtles. 2 Hours.
Overview of the biology and conservation of marine turtles. Lecture and
laboratory.
Prerequisites: BY 124 [Min Grade: D]

MESC 209. Hurricanes of the Gulf of Mexico. 2 Hours.
Survey of hurricane formation and impacts with emphasis on hurricanes
in the Gulf of Mexico. Does not count towards the biology major or minor.
General elective credit only.
MESC 213. Shark & Ray Biology. 2 Hours.
Introduction to the biology of sharks and rays, with emphasis on regional shark and ray fauna. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C]

MESC 216. Shark and Ray Biology. 2 Hours.
Introduction to the biology of sharks and rays, with emphasis on regional shark and ray fauna. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: C]

MESC 302. Coastal Zone Management. 2 Hours.
Ecological features and set of physical management policies for coastal communities, with description of relevant federal and state programs.

MESC 303. Coastal Climatology. 2 Hours.
Physical factors resulting in climatic conditions of coastal regions, with emphasis on northern Gulf of Mexico. Does not count towards the biology major or minor. General elective credit only.

MESC 304. Marine Geology. 4 Hours.
Geology of ocean basins, with emphasis on continental shelves, sediments, and sedimentary processes.
Prerequisites: ES 101 [Min Grade: D] and ES 102 [Min Grade: D]

MESC 305. Dolphins and Whales. 2 Hours.
Classification, anatomy, and ecology of cetaceans. Lecture and laboratory.
Prerequisites: BY 124 [Min Grade: D]

MESC 402. Marine Vertebrate Zoology. 4 Hours.
Marine fishes, reptiles, and mammals (systematics, zoogeography, and ecology). Lecture, laboratory, and field work. 12 semester hours in biology required.

MESC 407. Marine Botany. 4 Hours.
Marine algae and vascular and non-vascular plants (distribution, identification, structure, ecology, and reproduction). Lecture, laboratory, and field work. 12 semester hours in biology required.

MESC 411. Costal Wetlands Ecology. 4 Hours.
Habitat analysis, natural history studies, and population dynamics of selected organisms. Lecture, laboratory, and field work.
Prerequisites: MESC 412 [Min Grade: D] or BY 470 [Min Grade: D]

MESC 412. Marine Ecology. 4 Hours.
Bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems. Lecture, laboratory and field work.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D]

MESC 413. Marine Invertebrate Zoology. 4 Hours.
Natural history, systematics, and morphology of marine invertebrates. Lecture, laboratory and field work.
Prerequisites: BY 124 [Min Grade: D]

MESC 415. Coastal Ornithology. 2 Hours.
Coastal and pelagic birds, with emphasis on ecology, taxonomy, and distribution. Lecture, laboratory, and field work.
Prerequisites: BY 124 [Min Grade: D]

MESC 417. Marine Technical Methods. 2 Hours.
Hardware of marine science, sampling procedures, processing station location, and field equipment maintenance and operation. Prerequisite: 12 semester hours in a science discipline.

MESC 428. Oceanography. 4 Hours.
Physics, chemistry, biology, and geology of oceans.
Prerequisites: CH 117 [Min Grade: D] and CH 118 [Min Grade: D] and PH 202 [Min Grade: D] and MA 106 [Min Grade: D]

MESC 472. Marine Aquaculture. 2 Hours.
Science, techniques, and economics of marine aquaculture. Lecture and laboratory. BY 255 is a recommended prerequisite.
Prerequisites: BY 256 [Min Grade: D] or BY 435 [Min Grade: D]

MESC 473. Marine Fish Diseases. 4 Hours.
Introduction to aquatic animal diseases, specifically for fish and shellfish.
Prerequisites: BY 271 [Min Grade: D] and (BY 255 [Min Grade: D] or BY 256 [Min Grade: D])

MESC 475. Marine Behavioral Ecology. 4 Hours.
Behavior of marine organisms as it relates to survival in their environment. Lecture, laboratory and field trips.
Prerequisites: BY 255 [Min Grade: D] or BY 256 [Min Grade: D]

MESC 478. Advanced Anatomy and Evolution of Marine Fishes. 3 Hours.
Anatomical studies of marine fishes with emphasis on function and structure; evolutionary and taxonomic relationships.
Prerequisites: BY 256 [Min Grade: D]

MESC 479. Marine Toxicology. 4 Hours.
Selected topics of toxicology as related to the coastal environment and marine organisms.
Prerequisites: BY 330 [Min Grade: D] and (CH 235 [Min Grade: D] or CH 237 [Min Grade: D])

MESC 491. Research on Special Topics. 1-6 Hours.
Enrollment by special arrangement in any subject listed. Permission of MESC representative, Department of Biology required.

MESC 492. Special Topics: Lecture. 2-4 Hours.
Lectures on selected marine-related topics. Course content varies.

MG-Management Courses

Courses

MG 302. Management Processes and Behavior. 3 Hours.
Planning and ethical decision making; organization of process and design concepts; leadership, contemporary management issues, and communication within organizations; motivation, job attitudes, diversity, and performance evaluation; process control.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 305. Nonprofit Organization Mgmt/SL. 3 Hours.
The purpose of this course is to expose students to the historical origins of NPOs/NGOs, their favored tax status, and demands of transparency and accountability of achieving their stated missions. This course also exposes students to the challenges of managing a voluntary workforce, identifying revenue streams to fund activities, and developing strategies to ensure value creation in the nonprofit setting. This course is experiential. Students will explore the various aspects of the nonprofit sector academically and will also get first hand experience with a chosen NPO/NGO.

MG 306. Managing Innovation. 3 Hours.
This course addresses selected challenges and opportunities related to managing innovation. The purpose of this course is to provide an overview of the role of creativity and innovation in organizations, examine the managerial strategies and tactics for fostering innovation, and help students enhance their own ability to innovate.
MG 358. Business and Society. 3 Hours.
Economic and social consequences of contemporary issues such as public policy, management of legal/political process, standard-setting for ethical behavior, and environmental changes in 1990s. Emergence of global competition and effects on social and economic interests of multinational corporations. Junior standing required.
Prerequisites: (GPAT and GPA2 2.00) or (GPA2 2.00 and GPAU 2.00)

MG 401. Organizational Behavior. 3 Hours.
Theories of human motivation with applications; intra- and intergroup processes and leadership theories with applications; organizational environment and classical design theory; planned change with applications; organizational development and culture.
Prerequisites: (MG 302 [Min Grade: C] and GPAT and GPA2 2.00) or (MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 403. Operations Management. 3 Hours.
Operations management as related to manufacturing and non-manufacturing enterprises. Forecasting, inventory theory, scheduling, production control, facility layout, job design, and supporting functions.
Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GS 246 [Min Grade: C] and GS 215 [Min Grade: C] and GPAT and GPA2 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GS 246 [Min Grade: C] and GS 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 409. Human Resource Management. 3 Hours.
Managerial problems associated with acquisition, development, motivation, and compensation of human resources. Personnel problems such as employment, employee education and training, labor relations, industrial health and safety, and wage and salary administration; personnel research cases reviewed.
Prerequisites: (MG 302 [Min Grade: C] and GPAT and GPA2 2.00) or (MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 410. Labor-Management Relations. 3 Hours.
Managerial issues and opportunities associated with development of industrial and labor relations policy. Impact of public policy, significance of pressure groups, negotiation and administration of collective bargaining agreements, and review of NLRB/arbitration cases.
Prerequisites: MG 409 [Min Grade: C] (Can be taken Concurrently) and GPAT and GPA2 2.00) or MG 409 [Min Grade: C] (Can be taken Concurrently) and GPAU 2.00 and GPAO 2.00)

MG 411. Compensation Administration. 3 Hours.
Problems of compensation administration in public and private organizations, with emphasis on determination of range, salary levels, and structures. Job analysis, worker-trait-requirement analysis, job evaluation, incentive pay systems, employee benefits development, and wage and salary control.
Prerequisites: (MG 409 [Min Grade: C] and GPAT and GPA2 2.00) or (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 412. Employee Selection and Development. 3 Hours.
Employee selection, placement, and development functions within organizations. Recruitment, selection techniques, and state and federal laws and regulations affecting selection, performance appraisal, and development of manpower within organization.
Prerequisites: (MG 409 [Min Grade: C] and GPAT and GPA2 2.00) or (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 413. Employment Law. 3 Hours.
Impact of legislation, regulations, and court decisions on management of human resources in public and private organizations. Equal employment opportunity, health and safety, pension reform legislation, employment insurance, and social security. Junior standing required.
Prerequisites: (GPAT and GPA2 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 415. International Business Dynamics. 3 Hours.
Business and managerial problems of international business activity. Emphasis on relating current international information to problems and opportunities for business firms.
Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and LS 246 [Min Grade: C] and GS 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAT and GPA2 2.00) or (AC 201 [Min Grade: C] and EC 215 [Min Grade: C] and EC 211 [Min Grade: C] and EC 246 [Min Grade: C] and GS 246 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 416. Supply Chain Management. 3 Hours.
Course takes operational view of the mechanism for matching supply and demand through the management of material and information flow. This framework is used to understand strategic, design and operational issues in supply management.
Prerequisites: (MG 403 [Min Grade: C] and GPAT and GPA2 2.00) or (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 417. Project Management. 3 Hours.
Course discusses project management principles, methods, techniques and tools from manager's point of view. Topics include: planning, scheduling, organizing and controlling non-routine activities to achieve schedule, budget and performance objectives. Also discussed: socio-technical aspects of projects, role of project managers, project teams and scheduling and executing projects under uncertainty.
Prerequisites: AC 201 [Min Grade: C] and LS 246 [Min Grade: C] and EC 211 [Min Grade: C] and GS 215 [Min Grade: C]

MG 418. Quality Management. 3 Hours.
Concepts, techniques, and organizational requirements to ensure that quality is provided to consumer. Breadth of quality efforts, statistical quality control methods, quality circle principles, and quality assurance activities in various enterprises.
Prerequisites: (MG 403 [Min Grade: C] and GPAT and GPA2 2.00) or (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 425. Managing Through Leadership. 3 Hours.
Leaders who inspire people to work together can deliver results and services faster, better and more cost effectively. This course is designed to provide students with a comprehensive understanding of leadership as a phenomenon, with an emphasis on developing the skills to lead others. Major theories of leadership will be examined and students will gain insights about their individual strengths and weaknesses. Through hands-on experiences and workshops, students will develop and acquire the skills to lead high-performance teams that can optimize their productivity and deliver high-quality results.
Prerequisites: (GPAT and GPA2 2.00) or (GPAU 2.00 and GPAO 2.00)

MG 430. Management and Leadership in Sports Organizations. 3 Hours.
Management and leadership theories and practices as they relate to sport organizations. Provides a foundation in the research and application of human resource management and leadership principles for success in the sport industry. Junior standing required. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.
Prerequisites: (GPAT and GPA2 2.00) or (GPAU 2.00 and GPAO 2.00)
MK-438. Managerial Communication Skills. 3 Hours.
An advanced business communications course for undergraduates focusing on the verbal and nonverbal communication skills required of managers in today's business environment.
Prerequisites: BUS 350 [Min Grade: C]

MG 445. Management Internship. 3 Hours.
Offers qualified undergraduate students the chance to gain first-hand experience in a local business while receiving academic credit. Must be a management major, at least junior standing. B or better in MG 302 and GPA of 2.5 overall. Sponsoring business may require additional courses.
Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 490. Management Seminar/SL. 3 Hours.
Selected management topics. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.
Prerequisites: (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and QM 215 [Min Grade: C] and MG 302 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 492. Current Topics in Production and Operations Management. 3 Hours.
Selected topics in production and operations management.
Prerequisites: (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) and (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 493. Current Topics in Human Resource Management. 3 Hours.
Current development and issues in human resource management.
Prerequisites: (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) and (MG 409 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MG 499. Directed Readings in Management. 1-3 Hours.
Specific areas in management.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MK-Marketing Courses

Courses

MK 101. Introduction to Consumer Marketing. 3 Hours.
Survey course designed to provide understanding of business marketing practices and consumer decision making processes. Open to all UAB students.

MK 303. Basic Marketing. 3 Hours.
Survey course of the modern business process for planning, distributing, promoting and pricing of products (goods and services) for domestic and international organizations.
Prerequisites: (MA 105 [Min Grade: C] or MA 109 [Min Grade: C] or MA 125 [Min Grade: C] and (AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MA 105 [Min Grade: C] or MA 109 [Min Grade: C] or MA 125 [Min Grade: C] and (AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 312. Retail Marketing. 3 Hours.
Business to consumer marketing with consideration for location, organization, buying, receiving stock inventory and control, policies, pricing, services, control and personnel management within retail establishments.
Prerequisites: (MK 303 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 320. Industrial Distribution Management. 3 Hours.
Introduction to basic problems, concepts, and management practices of industrial distribution firms and manufacturing relationships. History of types of distributor organizations, functions, and role of industrial distribution in economy.
Prerequisites: (AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and MA 105 [Min Grade: C] and GPAT and GPAO 2.00) or (MA 105 [Min Grade: C] and AC 200 [Min Grade: C] and EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 330. Professional Selling. 3 Hours.
This course combines personal selling theory with actual practice. Students are required to give sales presentations, interact with professional sales representatives, analyze cases, participate in a variety of experiential exercises, use technology extensively, and practice both written and oral business communication.
Prerequisites: (MK 303 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 333. Sports Marketing. 3 Hours.
Strategic analysis, positioning and marketing of professional and amateur sports events and organizations. The goal is to provide students with a comprehensive view of all that is required to successfully market a sporting organization or event. Junior standing required.
Prerequisites: (GPAT and GPAO 2.00) or (GPAU 2.00 and GPAO 2.00)

MK 401. Social Media in Marketing. 3 Hours.
Survey course of the unique aspects of marketing through social media. The focus is on the application of new and emerging social media communications systems and practices that are becoming major elements in integrated marketing communication programs.
Prerequisites: MK 303 [Min Grade: C]

MK 408. Marketing Research. 3 Hours.
Research techniques in marketing with application of research findings to decision making and formulation of marketing strategies.
Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 410. Integrated Marketing Communication. 3 Hours.
Considers the organizations coordinated and strategic use of communication tools used in marketing including advertising, sales promotion, direct marketing, interactive media, publicity/public relations, sponsorship marketing, point-of-purchase communications and personal selling.
Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
MK 416. International Marketing. 3 Hours.

International marketing activities, including environmental issues, marketing strategy and tactical considerations in entering foreign markets.

Prerequisites: (AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 418. Introduction to E-Commerce. 3 Hours.

Management of Internet Technology into the marketing function of organization. Web-based business models, customer support, on-line quality, product pricing, and Internet based channels of distribution development studied. Preq: C or better in AC 201, EC 211, IS 103, LS 246, QM 215 and MK 303.

Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 419. Services Marketing. 3 Hours.

Understanding service customers, customer satisfaction, motivating service employees, improving service quality and role of services in strategy planning.

Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 420. Sales Management. 3 Hours.

The course focuses on the fundamentals of professional selling and the professionalization of the field. The course combines personal selling theory with actual practice. Students develop the analytical and communicative skills useful in their future business relationship-building activities. Analytical skills are developed through an assignment that requires students to research, design, and present their own comprehensive sales scenario. Students practice their communicative skills through in-class role playing.

Prerequisites: MK 330 [Min Grade: C](Can be taken Concurrently) and (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or MK 303 [Min Grade: C] (Can be taken Concurrently) and (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00)

MK 421. Entrepreneurship and Marketing Planning. 3 Hours.

Deals with the starting, managing and nurturing a new business venture. Emphasis on development of marketing/ business plans including market/industry/competitor analysis. Project based course.

Prerequisites: (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 425. Advanced Professional Selling. 3 Hours.

This course builds upon the basic selling skills learned in MK 330 and other communications courses. The students will focus on enhancing value-adding selling skills and developing long-term, mutually-beneficial customer relationships in a B2B context.

Prerequisites: (MK 320 [Min Grade: C] and MK 330 [Min Grade: C] and MK 420 [Min Grade: C] and BUS 350 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 320 [Min Grade: C] and MK 330 [Min Grade: C] and MK 420 [Min Grade: C] and BUS 350 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 430. Industrial Distribution Operations. 3 Hours.

Concepts of value added, profitability, inventory management, scheduling, decision support systems, facilities, and warehouse operations integrated with financial control of distributor operations. Case studies and industrial speakers.

Prerequisites: (MK 320 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 320 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 435. Industrial Distribution Policies and Quality Issues. 3 Hours.


Prerequisites: MK 430 [Min Grade: C](Can be taken Concurrently) and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and MK 320 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 320 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and MK 303 [Min Grade: C] and MK 320 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

MK 440. Small Business Consulting and Research. 3 Hours.

Applied field work integrating functional business fields of management, finance, accounting, marketing, economics, production policy, and decision making related to small business enterprises.

Prerequisites: FN 310 [Min Grade: C] and MG 302 [Min Grade: C] and MK 303 [Min Grade: C]

MK 445. Marketing Internship. 3 Hours.

Offers qualified undergraduate students the chance to gain first-hand experience in a local business while receiving academic credit. Marketing major and junior standing required. Sponsoring business may require additional courses.

Prerequisites: (MK 303 [Min Grade: B] and GPAU 2.00 and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (MK 303 [Min Grade: C] and AC 201 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
MK 450. Strategic Marketing. 3 Hours.
Course addresses problems of marketing management with emphasis on planning, implementing and controlling marketing activities with individual firms. 
Prerequisites: (BUS 350 [Min Grade: C] and FN 310 [Min Grade: C] and MK 312 [Min Grade: C] and MK 320 [Min Grade: C] and MK 408 [Min Grade: C] and MK 410 [Min Grade: C] and GPAT and GPAO 2.00) or (BUS 350 [Min Grade: C] and FN 310 [Min Grade: C] and MK 312 [Min Grade: C] and MK 320 [Min Grade: C] and MK 408 [Min Grade: C] and MK 410 [Min Grade: C] and GPAT and GPAO 2.00)

MK 471. Health Care Marketing. 3 Hours. 
This class is designed for upper level students with an interest in and/or who seek employment in the healthcare industry. It is also appropriate for seniors in Medical Equipment Sales and Distribution. The primary objective of this course is to provide students with a comprehensive overview of the marketing fundamentals in the health care environment. The course examines health care organizations as customers in a Business to Business environment as well as the special challenges in implementing marketing strategies.

MK 490. Special Topics in Marketing. 3 Hours. 
Selected marketing topics not covered in other marketing courses. 
Prerequisites: (MK 303 [Min Grade: C] and GPAT and GPAO 2.00) or (MK 303 [Min Grade: C] and GPAT and GPAO 2.00)

MK 495. Industrial Distribution Directed Studies/Practicum. 2 Hours. 
Problems in management of industrial distribution firms, both as suppliers for and customers of manufacturers and other businesses. Students work with host distributor/manufacturer on current and future distribution problem areas. 
Prerequisites: (GPAT and GPAO 2.00) or (GPAT and GPAO 2.00)

MK 499. Directed Readings in Marketing. 1-3 Hour. 
Specific areas in marketing. 
Prerequisites: (GPAT and GPAO 2.00) or (GPAT and GPAO 2.00)

MS-Military Science Courses

Courses

MS 101. Military Leadership. 2 Hours. 
Foundations of officership, examines the unique duties and responsibilities of officers. Discusses organization and role of the Army; reviews basic life skills pertaining to fitness and communication; analyzes Army values and expected ethical behavior.

MS 101L. Leadership Lab. 0 Hours. 
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 102. Military Leadership. 2 Hours. 
Basic leadership presents fundamental leadership concepts and doctrine. Practices basic skills that underlie effective problem solving; applies active listening and feedback skills; examines factors that influence leader and group effectiveness and examines the officer experience.

MS 102L. Leadership Lab. 0 Hours. 
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 103. Military Leadership. 2 Hours. 
Continuation of Quality Leadership and Management. Through lecture, activities, films, short readings, and discussion, students examine leadership dynamics, individual and group behavioral processes and team building. Analysis of professional values and ethics. Decision making and problem solving skills.

MS 103L. Leadership Lab. 0 Hours. 
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also assist in assessing subordinate cadet leaders.

MS 104. Rangers. 1 Hour. 
Develop leadership qualities of ROTC cadets through small unit tactics, self discipline, self confidence, and resourcefulness. Cadets participate in physical training. Enrolled cadets may participate in the two-day, 27-school South East Conference invitational varsity Ranger Challenge competition.

MS 105. Rangers. 1 Hour. 
Develop leadership qualities of ROTC cadets through small unit tactics, self discipline, self confidence, and resourcefulness. Cadets participate in physical training. Enrolled cadets may participate in the two-day, 27-school South East Conference invitational varsity Ranger Challenge competition.

MS 106. Rangers. 1 Hour. 
Develop leadership qualities of ROTC cadets through small unit tactics, self discipline, self confidence, and resourcefulness. Cadets participate in physical training. Enrolled cadets may participate in the two-day, 27-school South East Conference invitational varsity Ranger Challenge competition.
MS 207. Airborne Operations. 3 Hours.
This course requires 210 hours of student participation in airborne operations. The student will keep a journal of daily operations at airborne school in order to develop an airborne school for dummies booklet to be used as a guide for cadets and cadre when faced with questions about airborne school. The student must produce a point paper that discusses the relevancy or lack of relevancy of airborne operations in today's Army.

MS 250. Camp Challenge. 6 Hours.
Summer, off-campus, all-expense paid, hands-on seminar. Trains students in MS 100 and 200 level skills. Attending students qualify to compete for special 2-year, full scholarships to UAB.

MS 253. Basic Military Studies. 3 Hours.
Physical training, leadership, communication skills. Designed for students who are not able to take scheduled MS 201, 202, and 203 classes. Taken only with permission of Professor of Military Science.

MS 301. Military Leadership. 3 Hours.
Leadership and Problem solving examines basic skills that underlie effective problem solving; analyzes the role officers played in the transition of the Army from Vietnam to the 21ST century; reviews the features and execution of the Leadership Development Program; analyzes military missions, plan military operations and executes squad battle drills.
Prerequisites: MS 101 [Min Grade: C] and MS 102 [Min Grade: C] (Can be taken Concurrently) and MS 201 [Min Grade: C] and MS 202 [Min Grade: C]

MS 301L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also, assist in assessing subordinate cadet leaders.

MS 302. Military Leadership. 3 Hours.
Leadership and Ethics probes leader responsibilities that foster an ethical command climate; develops cadet leadership competencies; prepares for success at National Advanced Leadership Camp; recognizes leader responsibility to accommodate subordinate spiritual needs; apply principles and techniques of effective written and oral communication.
Prerequisites: MS 301 [Min Grade: C]

MS 302L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also, assist in assessing subordinate cadet leaders.

MS 303. Pre-Cadet Leadership Course (CLC). 3 Hours.
Platoon defensive and offensive measures; platoon movement techniques and command and staff functions. Incorporates all cadet skills for the Leadership Development and Assessment Course at Fort Lewis, Washington.
Prerequisites: MS 301 [Min Grade: C] and MS 302 [Min Grade: C]

MS 327. American Military History. 3 Hours.
Survey of American Military History from 1775 to present.

MS 401. Military Leadership. 3 Hours.
Oral and written presentation skills, including writing and reviewing selections of military correspondence and forms; presentation of performance-oriented training; conduct of briefings and meetings; analysis of organizational morals and ethics.
Prerequisites: MS 302 [Min Grade: C] and MS 301 [Min Grade: C]

MS 401L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also, assist in assessing subordinate cadet leaders.

MS 402. Military Leadership. 3 Hours.
Military justice system and junior officer's use of it; Army personnel management, logistics system, and personal support agencies.
Prerequisites: MS 301 [Min Grade: C] and MS 302 [Min Grade: C] and MS 401 [Min Grade: C]

MS 402L. Leadership Lab. 0 Hours.
Labs are the primary training opportunity for and by the cadet chain of command. To be efficient, labs should be multi-echelon exercises. The MS IV cadets act on guidance from the Professor of Military Science to plan, prepare, execute and evaluate the lab and also, assist in assessing subordinate cadet leaders.

MSE-Courses

MSE 111. Coop/Internship in MSE. 0 Hours.
Engineering workplace experience in preparation for the student's intended career.

MSE 280. Engineering Materials. 3 Hours.
Fundamentals of materials engineering, including terminology, mechanical testing and behavior, heat treating, and processing of metals, ceramics, polymers, and composites. Degradation of materials and criteria for materials selection. Course requires completion of 4 credits of Area III Science.

MSE 281. Physical Materials I. 4 Hours.
Structure of metals, ceramics and polymers; crystal bonding; phase diagrams, diffusion, dislocations and grain boundaries. Applications to the iron-carbon system, including heat treatment. MSE 281L must be taken concurrently.
Prerequisites: MA 125 [Min Grade: C] and MSE 280 [Min Grade: D]

MSE 281L. Physical Materials I Laboratory. 0 Hours.
Laboratory component of MSE 281 and must be taken concurrently.

MSE 350. Introduction to Materials. 3 Hours.
Concepts and applications, crystal structure of materials, formation of microstructures, and selected structure-property relationships. Not available for credit toward engineering major. For non-engineering majors only.

MSE 380. Thermodynamics of Materials. 3 Hours.
First, second, and third laws of thermodynamics. Gibbs free energy, heat capacity, enthalpy, entropy, and relationships between thermodynamic functions. Free-energy versus composition relationships; behavior of ideal and non-ideal solutions; concept of thermodynamic activity of components in solution. Applications to materials systems.
Prerequisites: CH 117 [Min Grade: D] and CH 118 [Min Grade: D] and MA 126 [Min Grade: C] and MSE 280 [Min Grade: D]
MSE 381. Physical Materials II. 3 Hours.
Microstructural changes in response to temperature and time; vacancies, annealing, diffusion, nucleation and growth kinetics. Equilibrium and non-equilibrium microstructures. Applications to precipitation hardening and solidification of metals.
Prerequisites: MSE 281 [Min Grade: D]

MSE 382. Mechanical Behavior of Materials. 3 Hours.
Microscopic deformation mechanisms in materials leading to macroscopic properties of fatigue; creep; ductile, transitional, and brittle fracture; friction; and wear. CE 220 (Mechanics of Solids) is recommended as a prerequisite for this course.
Prerequisites: MSE 281 [Min Grade: D]

MSE 401. Materials Processing. 3 Hours.
Processing of metals, glasses, ceramics, and composites. Powder processing, casting, welding, rapid solidification, and other advanced methods. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: MSE 280 [Min Grade: D] and CE 220 [Min Grade: D]

MSE 402. Frontiers of Materials. 3 Hours.
Recent advances in materials technology and application. Novel processing, structures, properties, and performance issues.
Prerequisites: MSE 281 [Min Grade: D]

MSE 405. Frontiers of Automotive Materials. 3 Hours.
Advanced lightweight automotive materials, manufacturing and modeling techniques. Technology advancements in cost-effective carbon, glass and related reinforcements; "green" and sustainable materials, crashworthiness and injury protection of occupants and pedestrians, metal castings, heavy truck, mass transit, fuel cell and hybrid vehicles. Students taking this class will receive a GATE certificate of training in automotive materials technologies upon successful completion.
Prerequisites: MSE 281 [Min Grade: D]

MSE 408. Nanomaterials. 3 Hours.
The emphasis of this course will be to introduce the basic tools of nanotechnology, building blocks of nanostructured materials, the behavior of materials with nanoscale structures and their technological applications, including automotive, medical, and electronic, etc.
Prerequisites: MSE 280 [Min Grade: D]

MSE 409. Principles of Metal Casting. 3 Hours.
Production and evaluation of cast ferrous metals (gray iron, ductile iron, steel) and non-ferrous metals (brass, bronze, aluminum). Design of castings and molds. Laboratory on the gating, risering and molten metal treatment, analysis and handling techniques required to produce high quality castings. MSE 409L must be taken concurrently.
Prerequisites: MSE 280 [Min Grade: D]

MSE 409L. Principles of Metal Casting Laboratory. 0 Hours.
Laboratory component of MSE 409 and must be taken concurrently.

MSE 413. Composite Materials. 3 Hours.
Processing, structure, and properties of metal-, ceramic-, and polymer-matrix composite materials. Roles of interfacial bond strength, reinforcement type and orientation, and matrix selection in physical and mechanical properties of composite materials. MSE 382 (Mechanical Behavior of Materials) is recommended as a prerequisite for this course. Writing is a significant component of this course.
Prerequisites: MSE 281 [Min Grade: D]

MSE 430. Polymeric Materials. 3 Hours.
Processing methods, structure/engineering/property relationships, and applications of polymeric materials.
Prerequisites: MSE 281 [Min Grade: D] and CH 117 [Min Grade: D] and CH 118 [Min Grade: D]

MSE 430L. Polymeric Materials Laboratory. 0 Hours.
Laboratory component of MSE 430 and must be taken concurrently.

MSE 433. Nondestructive Evaluation of Materials. 3 Hours.
Principles, applications, and limitation of ultrasonic vibrations, acoustic emission, radiographic, magnetic particle, eddy current, and other nondestructive testing methods. Intelligent sensors and health monitoring of real structures.
Prerequisites: MSE 465 [Min Grade: D]

MSE 462. Composites Manufacturing. 3 Hours.
Principles of manufacturing and processing of polymeric matrix composites. Production techniques including filament winding, pultrusion, and liquid infusion techniques combined with design, environmental and manufacturing issues of polymer matrix composites.
Prerequisites: MSE 281 [Min Grade: D]

MSE 464. Metals and Alloys. 4 Hours.
Microstructures, properties, heat treatment, and processing of ferrous and nonferrous materials.
Prerequisites: MSE 281 [Min Grade: D]

MSE 464L. Metals and Alloys Laboratory. 0 Hours.
Laboratory component of MSE 464 and must be taken concurrently.

MSE 465. Characterization of Materials. 4 Hours.
Theory and practice of materials characterization, with emphasis on optical metallography, quantitative metallography, scanning electron microscopy, crystallography, and x-ray diffraction. Specific applications in metals and ceramics considered. MSE 465L must be taken concurrently.
Prerequisites: MSE 281 [Min Grade: D]

MSE 465L. Characterization of Materials Laboratory. 0 Hours.
Laboratory component of MSE 465 and must be taken concurrently.

MSE 470. Ceramic Materials. 4 Hours.
Structure, processing, properties, and uses of ceramic compounds and glasses. Mechanical, thermal, and electrical behavior of ceramic materials in terms of microstructure and processing variables.
Prerequisites: MSE 281 [Min Grade: D] and CH 117 [Min Grade: D] and CH 118 [Min Grade: D]

MSE 470L. Ceramic Materials Laboratory. 0 Hours.
Laboratory component of MSE 470 and must be taken concurrently.

MSE 474. Metals and Alloys II. 3 Hours.
Production and physical metallurgy of ferrous and non-ferrous alloys including: steel alloys, inoculation and production of ductile, gray, compacted and malleable iron; advanced heat treatments of steel and iron; conventional and ultra-high strength aluminum alloys; wrought and cast copper alloys; wrought and cast magnesium alloys.
Prerequisites: MSE 281 [Min Grade: D] and MSE 464 [Min Grade: D]

MSE 484. Electronic Magnetic and Thermal Prop of Materials. 3 Hours.
Fundamentals of electron band structure, mechanisms behind rectifying junctions, transistors, and other electronic devices. Magnetic and thermal properties of materials.
Prerequisites: MSE 280 [Min Grade: D] and PH 221 [Min Grade: C]
MSE 489. Undergraduate Research in MSE. 0 Hours.
Undergraduate research experiences in materials science and/or engineering.
Prerequisites: (EGR 110 [Min Grade: C] and EGR 111 [Min Grade: C] or EGR 200 [Min Grade: C]) and MA 125 [Min Grade: C] and PH 221 [Min Grade: C](Can be taken Concurrently)

MSE 490. Special Topics in (Area). 1-6 Hour.
Special Topics in (Area).

MSE 491. Individual Study in (Area). 1-6 Hour.
Individual Study in (Area).

MSE 496. MSE Honors Seminar. 1 Hour.
Research presentations by faculty, students, and invited guests on topics related to Materials Science and Engineering.

MSE 497. MSE Honors Research. 2-6 Hours.
Honors students develop materials engineering research skills by working closely with faculty and graduate students.
Prerequisites: EGR 301 [Min Grade: P]

MSE 498. Capstone Design Project I. 3 Hours.
Capstone design project: interdisciplinary design teams, ethics, materials selection, design process, development of proposal, project planning and scheduling, project execution and resource scheduling, and communication of design. Writing is a significant component of this course.
Prerequisites: MSE 401 [Min Grade: D](Can be taken Concurrently) or ME 405 [Min Grade: D](Can be taken Concurrently)

MSE 499. Capstone Design Project II. 3 Hours.
Continuation of MSE 498 which must be taken in the previous term. Interim and final design reviews with written and oral reports. Writing is a significant component of this course.
Prerequisites: MSE 498 [Min Grade: D]

MT-Medical Technology Courses

Courses

MT 350. Special Topics: Chemistry. 1-3 Hour.
Designed specifically for individual student to cover topics not covered in MLT curriculum.

MT 400. Health and Safety Management. 1 Hour.
Review of infection control principles focused on bloodborne, airborne, drug-resistant and opportunistic pathogens, and general health and safety guidelines and standards.

MT 403. Body Fluids. 1 Hour.
Diagnosis and monitoring renal and systemic disease through the physical, biochemical, and microscopic analysis of urine and feces. Diagnosis of central nervous system and systemic disease through cerebrospinal fluid analysis. Diagnosis of metabolic and infectious disease through analysis of peritoneal fluid, synovial fluid, transudates, and exudates. Fertility testing using semen analysis.
Prerequisites: MT 403 [Min Grade: C](Can be taken Concurrently)

MT 404. Body Fluid Lab. 1 Hour.
Diagnosis and monitoring renal and systemic disease through the physical, biochemical, and microscopic analysis of urine and feces. Diagnosis of central nervous system and systemic disease through cerebrospinal fluid analysis. Diagnosis of metabolic and infectious disease through analysis of peritoneal fluid, synovial fluid, transudates, and exudates. Fertility testing using semen analysis. Concurrent enrollment MT 403.

MT 405. Laboratory Management. 3 Hours.
Current catalog description will remain unchanged. Ethics and Civic Responsibility are significant components of this course.

MT 406. Laboratory Techniques. 2 Hours.
Overview of issues and skills surrounding working in the modern laboratory environment; includes safety, collection of specimens, equipment, mathematics, measurements, microscopy, dilutions, quality assurance, basic spectrophotometry, phlebotomy, automation of laboratory testing and lab computers.

MT 418. Immunology. 3 Hours.
Physiology of immune responses to infectious agents, tumors, transplant; abnormal responses: hypersensitivity, autoimmunity, immunoproliferative disorders, and immunodeficiencies; antigen-antibody reactions; complement; principles and applications of clinical immunology.

MT 423. Clinical Microbiology. 3 Hours.
Reservoirs, modes of transmission, disease associations, and morphological and biochemical characteristics of microorganisms commonly isolated in the clinical laboratory; methods used to isolate and identify bacteria, parasites, and fungi.
Prerequisites: BY 271 [Min Grade: C] or BY 261 [Min Grade: C]

MT 424. Clinical Microbiology Laboratory. 1 Hour.
Performance of techniques and tests used in the isolation and identification of bacteria, fungi, and parasites commonly seen in a clinical microbiology laboratory. Concurrent enrollment MT 423.
Prerequisites: (BY 261 [Min Grade: C] or BY 271 [Min Grade: C]) and MT 423 [Min Grade: C](Can be taken Concurrently)

MT 426. Instrumentation and Automation. 2 Hours.
This course includes the study of the theory and principles of automation and instrumentation used in laboratories. An emphasis will be placed on quality control, quality assurance, instrumentation principles, basic statistics, and the regulatory, and economic issues encountered in laboratories including, clinical labs, health labs, government labs, private labs and other laboratories.
Prerequisites: CH 117 [Min Grade: C] and CH 118 [Min Grade: C]

MT 427. Instrumentation and Automation Laboratory. 1 Hour.
This course includes the practical application of automation and instrumentation used in laboratories. An emphasis will be placed on quality control, quality assurance, instrumentation principles, basic statistics, and the regulatory, and economic issues encountered in laboratories including, clinical labs, health labs, government labs, private labs and other laboratories.
Prerequisites: CH 117 [Min Grade: C] and CH 118 [Min Grade: C] and MT 426 [Min Grade: C](Can be taken Concurrently)

MT 428. Hematology I. 4 Hours.
Systematic examination of the normal hematologic and hemostatic systems: blood cell production, structure and function; blood cell morphology; performance, evaluation and interpretation of routine and special tests; primary hemostasis, coagulation and fibrinolysis. The course includes a mandatory laboratory component.
Prerequisites: MT 400 [Min Grade: C]
MT 430. Immunohematology. 4 Hours.
Analyze blood group antigen-antibody reactions; donor blood collection and testing serological characteristics and immunogenetics of the major blood group systems; pretransfusion testing, basic and advanced techniques of antibody identification and problem-solving; transfusion therapy; laboratory evaluation of hemolytic disease of the newborn; and the investigation of immune coating of red cells in vivo, including autoimmune hemolytic anemia. Application of theory and problem-solving skills is emphasized.
Prerequisites: MT 418 [Min Grade: C]

MT 431. Immunohematology Laboratory. 1 Hour.
Performance and evaluation of: red cell phenotyping, antibody detection and identification, pretransfusion testing, and laboratory investigation to diagnosis and treat hemolytic anemias and adverse effects of transfusion.
Prerequisites: MT 418 [Min Grade: C] and MT 430 [Min Grade: C](Can be taken Concurrently)

MT 432. Hematology II. 4 Hours.
Pathology of the hematologic and hemostatic systems: anemias, leukemias, myelodysplastic syndromes, myeloproliferative syndromes, chronic leukemias, acute leukemias, primary hemostatic disorders, coagulopathies, thrombophilia, and interpretation and correlation of laboratory data supporting diagnosis and management or treatment. The course includes a mandatory laboratory component.
Prerequisites: MT 428 [Min Grade: C]

MT 438. Infectious Diseases. 3 Hours.
Pathogenic mechanisms of infectious diseases; normal flora and pathogens of various body sites; methods for collection, transport, and culturing different types of clinical specimens; interpretation of cultures.
Prerequisites: MT 423 [Min Grade: C] and MT 424 [Min Grade: C]

MT 439. Infectious Diseases Laboratory. 1 Hour.
Performance and interpretation of direct Gram stains; culturing various types of clinical specimens for isolation of bacteria; performing and interpreting tests used in the identification of potential pathogens; reporting culture results; antimicrobial susceptibility and resistance testing.
Prerequisites: MT 423 [Min Grade: C] and MT 424 [Min Grade: C] and MT 438 [Min Grade: C](Can be taken Concurrently)

MT 442. Molecular Diagnostics. 3 Hours.
The course will focus on the development of knowledge in and the fundamental principles of: molecular biochemistry, medical genetics, molecular pathology, performance, evaluation and interpretation of molecular tests.
Prerequisites: BY 210 [Min Grade: C]

MT 443. Molecular Diagnostics Laboratory. 1 Hour.
The course will focus on applications and analysis, and the development of competencies in: nucleic acid isolation, analysis of nucleic acids and protein, cytogenetics, PCR and others.
Prerequisites: MT 442 [Min Grade: C](Can be taken Concurrently)

MT 451. Clinical Chemistry. 4 Hours.
Theory of clinical laboratory techniques to identify and quantitate chemical analytes in body fluids and the correlation of these analytes to human disease.
Prerequisites: MT 426 [Min Grade: C] and MT 427 [Min Grade: C]

MT 452. Clinical Chemistry Laboratory. 1 Hour.
Performance of laboratory techniques used to identify and quantitate chemical analytes in body fluids and the correlation of these analytes to human disease.
Prerequisites: MT 451 [Min Grade: C]

MT 455. Research Principles. 2 Hours.
Clinical research principles and methods relevant to laboratory medicine assays; applications of descriptive and inferential statistics with diagnostic assay accuracy studies; development of competencies for critical analyses of empirical research papers to determine quality of empirical evidence and the operating characteristics of the diagnostic assays studied and the planning process for verification studies of diagnostic assays. Quantitative Literacy is a significant component of this course.

MT 460. Clinical Correlations. 3 Hours.
Analyze and interpret laboratory case studies; correlate clinical and technical information obtained from various topics covered throughout the curriculum; work with groups to present case studies with an emphasis on application and interpretation of laboratory protocols, competence in grammar usage and mechanics, and writing conventions required for laboratory professionals. Writing is a significant component of this course.
Prerequisites: MT 430 [Min Grade: C](Can be taken Concurrently) and MT 432 [Min Grade: C](Can be taken Concurrently) and MT 451 [Min Grade: C](Can be taken Concurrently) and MT 439 [Min Grade: C](Can be taken Concurrently)

MT 470. Certification Review. 1 Hour.
Review of medical technology/clinical laboratory science body of knowledge with required comprehensive trial certification final examination using self-directed online materials. Experience with the development of a personal certification maintenance plan to meet requirements defined by national certification agencies in Clinical Laboratory Sciences. Medical Technology students only.
Prerequisites: MT 495 [Min Grade: C](Can be taken Concurrently)

MT 495. Clinical Practices. 1-12 Hour.
This CLS program capstone course involves directed clinical practice in hematology, chemistry, microbiology, immunology and immunohematology with focused activities to reinforce, integrate and apply knowledge obtained throughout the curriculum. Students will organize, build on, and reflect on previous assignments/experiences to demonstrate attainment of discipline-specific writing, quantitative literacy, ethical issues, and civic engagement.

MU-Music Courses

Courses

MU 100. Fundamentals of Music. 3 Hours.
Basic elements of music and music notation: rhythm, scales, keys, and chords.

MU 115. Computer Music I. 3 Hours.
Introduction to hardware and software for creating and performing music with computers. Concepts include digital sampling, binary computation, properties of waveforms, graphical notation, and audio sequencing. Quantitative Literacy is a significant component of this course.
Prerequisites: MU 100 [Min Grade: B]

MU 120. Music Appreciation. 3 Hours.
Guided listening and class discussion covering variety of styles. Emphasis on European concert music of the eighteenth and nineteenth centuries. This course meets the Core Curriculum requirements for Area II: Fine Arts.

MU 141. Musical Acoustics. 3 Hours.
Physical nature of musical tones (pitch, loudness, and timbre) and numerical basis of scales, tuning, and musical instrument design. Laboratory/discussion including use of oscilloscope to study actual acoustic systems.
MU 145. The Music Business. 3 Hours.
Business aspects of music industry.

MU 159. Introduction to Composition. 3 Hours.
Introduction to the craft of musical composition.
Prerequisites: MU 221 [Min Grade: C] and MU 224 [Min Grade: C]

MU 160. First Year Experience in Music. 1 Hour.
The objective of this course is to introduce incoming freshmen to an
education in music and music education in context of the university. It is
meant to help prepare students for a successful collegiate career in the
study of music. 1 hour.

MU 165. Jazz Styles: History and Appreciation. 3 Hours.
American jazz with emphasis on instrumental and vocal performers, jazz
bands, and combos. Development of big band, swing, and popular music.

MU 199. Independent Studies. 1-3 Hour.
Directed projects in music. Permission of Department Chair based on
written proposal submitted prior to registration.

MU 203. Introduction to Music Education. 2 Hours.
An introduction to the expectations of the modern-day public school
music teacher, including the role of the teacher, curricular and legal
expectations of teaching, and historical and philosophical underpinnings
of public school music teaching.

MU 210. Special Workshop. 1 Hour.
Specialized subjects taught as opportunity allows. May be repeated for
credit.

MU 211. Recording Studio Workshop. 1-3 Hour.
Specialized subjects taught as opportunity allows. May be repeated for
credit.

MU 221. Music Theory I. 3 Hours.
Melody, harmony, and rhythm; their interaction in music. Diatonic musical
materials with emphasis on choral and simple keyboard idioms.
Prerequisites: MU 100 [Min Grade: B]

MU 222. Music Theory II. 3 Hours.
Continuation of MU 221.
Prerequisites: MU 221 [Min Grade: C] and MU 224 [Min Grade: C]

MU 224. Aural Skills I. 1 Hour.
Required laboratory for MU 221.

MU 225. Aural Skills II. 1 Hour.
Required laboratory for MU 222.
Prerequisites: MU 224 [Min Grade: C]

MU 232. Instrumental Literature I. 3 Hours.
Introduction to the layout of instrumental scores, a history and
development of the orchestra, extensive work with transpositions, ranges,
and tone colors of instruments, and a survey of instrumental literature.

MU 233. Piano Literature I. 3 Hours.
Survey of the important piano solo repertoire from Bach through
Schubert. Examination of the development of keyboard repertoire from
the time of the harpsichord through the time of the early piano through
playing, analysis and listening. Two terms of Applied Piano required.
Prerequisites: MUP 150 [Min Grade: C]

MU 234. Vocal Literature I. 3 Hours.
Introductory survey of representative non-operatic solo vocal repertoire
of North America, the British Isles, and Italy. Techniques of song study,
interpretation, and performance practice. Two terms of Applied Voice
required.
Prerequisites: MUP 140 [Min Grade: C]

MU 235. English and Italian Diction. 2 Hours.
Instruction in standard English and Italian stage pronunciation.

MU 236. French and German Diction. 2 Hours.
Instruction in the standard French and German stage pronunciation.
Prerequisites: MU 235 [Min Grade: C]

MU 245. Recording Technology I. 3 Hours.
Concepts and techniques of music production in recording studios.
Limited enrollment. First class meets on campus.

MU 261. Introduction to Music Literature. 3 Hours.
Score reading and elementary analysis. Chronological survey of styles
and forms of each historical period. Basic music reading ability.

MU 282. Accompanying. 3 Hours.
Principles of accompanying singers and instrumentalists; practical
experience in accompanying; and facility in sight-reading for keyboard
performers. Experience is gained through assigned projects and/or
assigned studio accompanying.

MU 298. Introduction to Technology in the Arts. 3 Hours.
Applications of computer-based technology to the arts: music, theatre,
video, and visual arts. Demonstrations of multimedia capabilities.

MU 299. Independent Studies. 1-3 Hour.
May be repeated for credit. Permission of Department Chair based on
written proposal submitted prior to registration.

MU 303. Foundations of Music Education. 3 Hours.
Analysis into the historical, social, and philosophical foundations of music
education by studying the application of education principles to music and
emphasizing the development of a personal philosophy towards music
education.
Prerequisites: MU 203 [Min Grade: C]

MU 321. Music Theory Ill. 3 Hours.
Emphasizes chromatic harmony, modulation, and the analysis of musical
form.
Prerequisites: MU 222 [Min Grade: C] and MU 225 [Min Grade: C]

MU 322. Music Theory IV. 3 Hours.
Emphasizes chromatic harmony and voice-leading, the expansion
of tertian harmony, and includes an overview of 20th century and
contemporary compositional and analytical techniques.
Prerequisites: MU 321 [Min Grade: C] and MU 324 [Min Grade: C]

MU 324. Aural Skills Ill. 1 Hour.
Required laboratory for MU 321. Ethics and Civic Responsibility are
significant components of this course.
Prerequisites: MU 225 [Min Grade: C] and MU 222 [Min Grade: C]

MU 325. Aural Skills IV. 1 Hour.
Required laboratory for MU 322.
Prerequisites: MU 324 [Min Grade: C] and MU 321 [Min Grade: C]

MU 329. Conducting. 2 Hours.
Basic conducting techniques and rehearsal procedures.

MU 330. Marching Band Techniques. 3 Hours.
Organizing and administering a marching band, including show design
and computer-assisted drill-writing experience.

MU 331. Band Literature. 3 Hours.
Frequently performed modern concert band literature.
MU 332. Instrumental Literature II. 3 Hours.
Introduction to the layout of instrumental scores, a history and development of the orchestra, extensive work with transpositions, ranges, and tone colors of instruments, and a thorough study of instrumental literature including orchestral, wind, and chamber music.
Prerequisites: MU 232 [Min Grade: C]

MU 333. Piano Literature II. 3 Hours.
Survey of the important solo repertoire from the early Romantic era through the present. Examination of the development of piano technique from Chopin and Liszt through Cage and Crumb by playing, analyzing and listening.
Prerequisites: MU 233 [Min Grade: C]

MU 334. Vocal Literature II. 3 Hours.
Introductory survey of representative non-operatic solo vocal repertoire of France, Germany, and Austria. Techniques of song study, interpretation, and performance practice.
Prerequisites: MU 234 [Min Grade: C] and MU 236 [Min Grade: C]

MU 341. Computer Music II. 3 Hours.
Using computer applications, including MIDI and sampling technology, in the creation of musical compositions.
Prerequisites: MU 115 [Min Grade: C]

MU 342. Computer Music III. 3 Hours.
Continuation of MU 341. Advanced computer music projects utilizing sound synthesis, sound file manipulation, and hard disk recording techniques.
Prerequisites: MU 222 [Min Grade: C] and MU 225 [Min Grade: C] and MU 341 [Min Grade: C]

MU 345. Recording Technology II. 3 Hours.
Advanced concepts and techniques of multitrack recording in project and professional recording studio, including signal processing mixing and mastering.
Prerequisites: MU 115 [Min Grade: C] and MU 221 [Min Grade: C] and MU 224 [Min Grade: C] and MU 245 [Min Grade: C]

MU 359. Composition I. 1-2 Hour.
Discussions and creative projects designed to help beginning composers or arrangers gain experience in handling variety of musical styles, and in shaping musical ideas. May be repeated for maximum of 3 hours credit.
Prerequisites: MU 322 [Min Grade: C]

MU 364. American Music. 3 Hours.
Music in United States from colonial times to the present.
Prerequisites: MU 120 [Min Grade: C] or MU 261 [Min Grade: C]

MU 365. The Evolution of Jazz. 3 Hours.
Origins and survey of jazz types and styles. Lectures, recordings, and readings.
Prerequisites: MU 120 [Min Grade: C] or MU 261 [Min Grade: C]

MU 366. Music in World Cultures. 2-3 Hours.
Characteristics of musical styles found in various cultures throughout the world. 3-hour option requires semester project directed by the instructor.
Prerequisites: MU 120 [Min Grade: C] or MU 261 [Min Grade: C]

MU 367. Introduction to Ethnomusicology. 3 Hours.
Holistic approach to study of music. Musicians' training, instruments, and role in society. Methods for documenting and transcribing, social functions and economic context, and theories of performance and creativity. Ghanaian and Indian traditions, with other music, including Western, as appropriate. Six semester hours of ANTH, MU or MUP courses required.
Prerequisites: MU 120 [Min Grade: C] or MU 120 [Min Grade: C]

MU 381. Instrumental Pedagogy. 3 Hours.
Overview of important components of teaching instrumental music in the secondary school program, including developing a personal philosophy of music education and teaching strategies. Prerequisites: Four terms of Applied Lessons (MUP 161 - 195).

MU 382. Piano Pedagogy. 3 Hours.
Study of teaching objectives, techniques, literature, methods and materials (including observation) for the pre-college student as well as the study of the history of the piano and piano mechanism. Two terms of Applied Piano required.
Prerequisites: MUP 150 [Min Grade: C]

MU 383. Vocal Pedagogy. 3 Hours.
Principles of healthy voice production as the foundation for an approach to teaching voice. Two terms of Applied Voice required.
Prerequisites: MUP 140 [Min Grade: C]

MU 399. Independent Studies. 1-3 Hour.
Permission of Department Chair based on written proposal submitted prior to registration.

MU 410. Music Technology Workshop. 1-3 Hour.
Workshop in Music Technology.

MU 429. Advanced Conducting/Techniques. 2 Hours.
Rehearsal techniques, expression, and interpretation. May occasionally work with University ensembles.
Prerequisites: MU 329 [Min Grade: C]

MU 441. Multimedia Productions. 3 Hours.
Techniques for producing music for television, film, video, computer presentations, and slide shows using computer-based technologies.
Prerequisites: MU 342 [Min Grade: C] and MU 345 [Min Grade: C]

MU 445. Modal Counterpoint. 3 Hours.
Important characteristics of vocal polyphonic writing based on modal scales with emphasis on style of Palestrina and other Renaissance composers.
Prerequisites: MU 222 [Min Grade: C]

MU 446. Tonal Counterpoint. 3 Hours.
Important characteristics of polyphonic writing based on major and minor scales with emphasis on style of J.S. Bach and other eighteenth century composers.
Prerequisites: MU 322 [Min Grade: C]

MU 448. Orchestration. 3 Hours.
Scoring techniques for orchestra, band, and other instrumental groups.
Prerequisites: MU 322 [Min Grade: C]

MU 451. Topics in Music Theory. 3 Hours.
Aspects of music theory and analysis. May be repeated for credit.
Prerequisites: MU 322 [Min Grade: C]

MU 455. Analysis of Musical Structure. 3 Hours.
Principles and techniques of organization in tonal music; analytical methods.
Prerequisites: MU 322 [Min Grade: C]

MU 458. Contemporary Techniques. 3 Hours.
Techniques and materials employed in contemporary music, including nonfunctional and nontertian harmony, polyharmony, atonal and serial music, contemporary notation.
Prerequisites: MU 322 [Min Grade: C]

MU 459. Composition II. 1-2 Hour.
Directed individual projects in composition and discussions on related topics. May be repeated for credit.
Prerequisites: MU 359 [Min Grade: C]
MU 461. Seminar in Music Literature. 3 Hours.
Selected topics concerning specific periods, genres, and forms. May be repeated for credit.

MU 471. Music History and Literature to 1750. 3 Hours.
Major developments of music styles and forms from pre-Christian era through Baroque. Includes critical listening to selected musical examples.
Prerequisites: MU 222 [Min Grade: C]

MU 472. Music Hist/Lit 1750-Present. 3 Hours.
A course taken in the student’s junior or senior year that studies the major developments of musical styles and forms from the classical period through the present. This includes critical listening to selected musical examples as well as critical analysis, research and writing. Writing is a significant component of this course.
Prerequisites: MU 222 [Min Grade: C]

MU 498. Music Technology Internship. 1-2 Hour.
This capstone experience provides students in Music Technology with practical experience in.
Prerequisites: MU 342 [Min Grade: C] and MU 345 [Min Grade: C] and MU 441 [Min Grade: C]

MU 499. Independent Studies. 1-3 Hour.
Directed studies in music. Permission of Department Chair. Written proposal must be submitted prior to registration.

MUP-Music Performance Courses

Courses

MUP 001. Performance Attendance. 0 Hours.
Attendance at Department-approved musical events such as concerts, recitals, and festivals. Required of music, music technology, and music education majors.

MUP 110. Gospel Choir. 1 Hour.
Primarily performs choral literature from the Major Eras of American Gospel Music. Open to students of all majors. May be repeated for credit.

MUP 120. University Chorus. 1 Hour.
Non-auditioned ensemble open to students of all majors, performing larger masterworks for choir and orchestra. May be repeated for credit.

MUP 122. Class Voice. 1 Hour.
Fundamentals of singing for teaching or performance. Group and individual instruction.

MUP 124. Class Piano. 1 Hour.
Basic keyboard skills for adult beginner. May be repeated for maximum of 3 hours of credit.

MUP 125. Piano Proficiency. 0 Hours.
Required of music majors for graduation and music education majors before entering Teacher Education Program (TEP).

MUP 130. Class Guitar. 1 Hour.
Beginning course in basic guitar techniques and music reading. Student must have a classic or acoustic guitar.

MUP 132. Class Woodwinds. 1 Hour.
Basic materials and performance techniques, primarily for music education students.

MUP 134. Class Brass. 1 Hour.
Basic materials and performance techniques, primarily for music education students.

MUP 136. Class Percussion. 1 Hour.
Basic materials and performance techniques, primarily for Music Education students.

MUP 138. Class Strings. 1 Hour.
Basic materials and performance techniques, primarily for Music Education students.

MUP 140. Private Lessons: Voice. 1 Hour.
Private instruction in voice. Limited to Music Majors and Minors.

MUP 150. Private Lessons: Piano. 1 Hour.
Private instruction in Piano. Open to all majors by audition.

MUP 161. Private Lessons: Flute. 1 Hour.
Private instruction in flute. Limited to Music majors and minors.

MUP 162. Private Lessons: Oboe. 1 Hour.
Private instruction in oboe. Limited to Music majors and minors.

MUP 163. Private Lessons: Clarinet. 1 Hour.
Private instruction in clarinet. Limited to Music majors and minors.

MUP 164. Private Lessons: Saxophone. 1 Hour.
Private instruction in saxophone. Limited to Music majors and minors.

MUP 166. Private Lessons: Bassoon. 1 Hour.
Private instruction in bassoon. Limited to Music majors and minors.

MUP 171. Private Lessons: Trumpet. 1 Hour.
Private instruction in trumpet. Limited to Music majors and minors.

MUP 172. Private Lessons: French Horn. 1 Hour.
Private instruction in French horn. Limited to Music majors and minors.

MUP 173. Private Lessons: Trombone. 1 Hour.
Private instruction in trombone. Limited to Music majors and minors.

MUP 174. Private Lessons: Euphonium. 1 Hour.
Private instruction in euphonium. Limited to Music majors and minors.

MUP 175. Private Lessons: Tuba. 1 Hour.
Private instruction in tuba. Limited to Music majors and minors.

MUP 180. Private Lessons: Percussion. 1 Hour.
Private instruction in percussion. Limited to Music majors and minors.

MUP 191. Private Lessons: Violin. 1 Hour.
Private instruction in violin. Limited to Music majors and minors.

MUP 192. Private Lessons: Viola. 1 Hour.
Private instruction in viola. Limited to Music majors and minors.

MUP 193. Private Lessons: Cello. 1 Hour.
Private instruction in cello. Limited to Music majors and minors.

MUP 194. Private Lessons: Bass. 1 Hour.
Private instruction in bass. Limited to Music majors and minors.

MUP 195. Private Lessons: Guitar. 1 Hour.
Private instruction in guitar. Limited to Music majors and minors.

MUP 220. Concert Choir. 1 Hour.
Performs choral music representing a variety of periods and styles. Some sight-reading ability necessary. May be repeated for credit.

MUP 220L. Concert Choir Learning Lab. 0 Hours.
Required Learning Lab for MUP 220 Concert Choir. Performs choral music representing a variety of periods and styles. Some sight-reading ability necessary.
MUP 221. Jazz Combo. 1 Hour.
Performs repertoire of traditional and contemporary jazz for small ensembles. Rehearsals will focus on reading from "Real Books" and will include harmonic analysis as well as a study of basic improvisation, form and style.

MUP 222. Advanced Woodwind Methods. 1 Hour.
Methods and materials for music educators in the specialized techniques of woodwind (flute, oboe, clarinet, saxophone, bassoon) pedagogy; emphasis on learning through performance and preparing and teaching in-class lessons.
Prerequisites: MUP 132 [Min Grade: C]

MUP 224. Advanced Brass Methods. 1 Hour.
Methods and materials for music educators in the specialized techniques of brass (trumpet, trombone, horn, euphonium, tuba) pedagogy; emphasis on learning through performing and teaching in-class lessons.
Prerequisites: MUP 134 [Min Grade: C]

MUP 225. Symphony Band. 1 Hour.
Performs concert band literature. Open to students of all majors. May be repeated for credit.

MUP 226. Advanced Percussion Methods. 1 Hour.
Methods and Materials for music educators in the specialized techniques of percussion pedagogy; emphasis on learning through performance and preparing and teaching in-class lessons.
Prerequisites: MUP 136

MUP 230. Guitar Ensemble. 1 Hour.
Performs original and pre-arranged selections of guitar ensemble literature. May be repeated for credit.

MUP 231. Orchestra. 1 Hour.
Participation in community orchestra. Open to string students; wind or percussion players must enroll concurrently in MUP 225, MUP 235 or MUP 236.

MUP 232. Marching Band. 1 Hour.
Supports UAB football program by performing pre-game and half time shows. May also perform for other special University or community events. Open to students of all majors with marching band experience. May be repeated for credit.

MUP 233. Clarinet Choir. 1 Hour.
Performs works for clarinet choir in a chamber setting. Open to students of all majors. May be repeated for credit.

MUP 234. Percussion Ensemble. 1 Hour.
Performs original and pre-arranged selections of concert percussion literature. Advanced percussion skill necessary. Open to students of all majors. May be repeated for credit.

MUP 235. Wind Symphony. 1 Hour.
Performs finest concert band literature. Open to students of all majors. May be repeated for credit.

MUP 235L. Wind Symphony Learning Lab. 0 Hours.
Required Learning Lab for MUP 235 Wind Symphony. Performs finest concert band literature. Open to students of all majors.

MUP 236. Jazz Ensemble. 1 Hour.
Performs classic and contemporary jazz, swing, and rhythm and blues. May be repeated for credit.

MUP 237. Blazer Band. 1 Hour.
Supports UAB basketball program by performing at games. May also perform for other special University or community events. Open to students of all majors. May be repeated for credit.

MUP 238. Brass Ensemble. 1 Hour.
Performs works for brass ensemble in a chamber setting. Open to students of all majors. May be repeated for credit.

MUP 239. Tuba/Euphonium Ensemble. 1 Hour.
Performs works for low brass ensemble in a chamber setting. Open to students of all majors. May be repeated for credit.

Limited to Music Technology majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Private instruction in piano, including weekly performance class. Open to all majors by audition.

MUP 253. Private Lessons: Jazz Piano. 1,2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 262. Private Lessons: Oboe. 1-2 Hour.
Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 266. Private Lessons: Bassoon. 1-2 Hour.
Limited to Music majors and minors. Weekly private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 255. Jazz Improvisation. 3 Hours.
Jazz theory and improvisational techniques. Emphasis on basic repertory of standards and typical jazz forms. Stresses both performance and theory.

MUP 266. Private Lessons: Bassoon. 1-2 Hour.
Private instruction in bassoon. Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. May be repeated for credit.

MUP 267. Private Lessons: Jazz Saxophone. 1,2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 274. Private Lessons Euphonium. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 276. Private Lessons: Jazz Trumpet. 1.2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

MUP 277. Private Lessons: Jazz Trombone. 1.2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 281. Private Lessons: Jazz Percussion. 1-2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 293. Private Lessons: Cello. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 296. Private Lessons: Jazz Guitar. 1-2 Hour.
Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

Limited to Music Technology majors and minors. Weekly private lesson to be scheduled with the instructor. May be repeated for credit.

MUP 300. Chamber Singers. 1 Hour.
Advanced choral group. Performs variety of choral music representing different periods and styles. By audition only. Advanced music-reading skills required. May be repeated for credit.

MUP 321. Women's Chorale. 1 Hour.
Performs choral music for women's voices and covers a variety of periods and styles. Some sight-reading ability necessary. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

MUP 341. Computer Music Ensemble. 1 Hour.
Performs computer and other electronically generated music of various styles.
Prerequisites: MU 222 [Min Grade: C] and MU 225 [Min Grade: C] and MU 341 [Min Grade: C]

Private instruction in piano, plus weekly performance class. Open to all majors by audition.

MUP 353. Piano Ensemble. 1 Hour.
Explores piano literature for multiple performers. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 363. Private Lessons: Clarinet. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Private instruction in bassoon. Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 373. Private Lessons: Trombone. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 393. Private Lessons: Cello. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

MUP 397. Junior Recital. 0 Hours.
Thirty-minute recital presented in the junior year.

MUP 420. Opera Workshop. 1 Hour.
Select member group. Performs staged productions of operas, opera scenes, and musical theater excerpts. Requires advanced music-reading skills. May be repeated for credit.

Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 340 [Min Grade: C]

Limited to Music majors and minors. Weekly performance class and private lesson, to be.

Prerequisites: MUP 350 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 361 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 362 [Min Grade: C]

MUP 463. Private Lessons: Clarinet. 1-2 Hour.
Private instruction in clarinet. Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. may be repeated for credit.

Prerequisites: MUP 363 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 364 [Min Grade: C]

MUP 466. Private Lessons: Bassoon. 1-2 Hour.
Private instruction in bassoon. Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with instructor, are required. May be repeated for credit.

Prerequisites: MUP 366 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 371 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 372 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 373 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 374 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 375 [Min Grade: C]

Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 380 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 391 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 392 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 393 [Min Grade: C]

Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.

Prerequisites: MUP 394 [Min Grade: C]
MUP 495. Private Lessons: Guitar. 1-2 Hour.
Limited to Music Majors and Minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required. May be repeated for credit.
Prerequisites: MUP 395 [Min Grade: C]
MUP 497. Senior Recital/Project. 0 Hours.
A co-curricular course taken in the student’s last 30 hours that, together with their last semester of applied lessons, will culminate in a Senior Recital or Lecture-Recital. This is a capstone course for all students seeking a Bachelor of Arts (general) degree.

NBL-Neurobiology

Courses
NBL 120. Basic Neuroscience. 3 Hours.
NBL 121. Basic Neuroscience. 3 Hours.
NBL 150. Neuroscience for Non-Majors. 3 Hours.
Neuroscience is one of the fastest growing disciplines in all of science. Using tools and perspectives adopted from across many scientific realms, neuroscience researchers have now learned more about the brain in the last two decades than in all of human history combined. Like never before, neuroscience is providing us with information pertinent to our everyday lives and in the process become a part of contemporary culture. In this lecture and discussion-based course, we will explore a range of neuroscience-related topics, including but not limited to creativity, consciousness, perception, love and emotion, brain health, motivation, stress, personality, and the differences between the male and female brain. There will be no required text for the course, and participants need no scientific background to participate.
NBL 210. Scientific Reasoning and Medical Research Design. 3 Hours.
The goal of this course is to teach biomedical research design basics and critical thinking skills in the context of neuroscience research. This knowledge should be helpful for understanding and conducting scientific research, as well as for the updated sections of the 2015 MCAT test for medical school admission.
NBL 220. Special Topics Neuroscience 1. 1 Hour.
This course covers different topics that have to do with Neurobiology.
NBL 222. Special Topics Neuroscience 2. 2 Hours.
This course covers different topics that have to do with Neurobiology.
NBL 225. No Self Control: Motivation, Reward and Addiction. 3 Hours.
Survival of self and species has been evolutionarily wired into the brain. Largely, involving sub-cortical networks, animals are strongly rewarded by beneficial outcomes and driven away from aversive situations. Overseeing these opposing subconscious determinants of motivated behavior is a pre-frontal cortical command center, which along with additional systems that provide for experiential memory and emotional significance, guide the choices we make. This course will provide the participant with an introduction to the neuronal pathways that underlie normal decision making, with a major focus on how this circuitry becomes compromised during addiction. These topics should be relevant to students interested in biomedicine, health professions or counseling.
NBL 230. Brain Function and Dysfunction. 3 Hours.
This course is an introduction to brain function. The topics range from the molecular to the behavioral. The structure of brains (insects to humans) and their key elements, neurons and glia, are discussed. We will focus on how it converts this input into electrical impulses, which then cause the release of a chemical messenger that influences the activity of other neurons (and glia) and ultimately generates behavior.
NBL 240. Special Topics Neuroscience 3. 2 Hours.
This course covers different topics that have to do with Neurobiology.
NBL 245. The Neurobiology of Learning and Memory. 3 Hours.
This course focuses on the biological mechanisms involved in the processes of learning and memory in the nervous system. We will examine these mechanisms at the molecular, cellular and systems levels of the brain. Topics range from memory-associated molecules and synaptic plasticity to animal models and human behavior. In addition, students will be introduced to the many behavioral paradigms and molecular genetic techniques used by neuroscientists to study learning and memory in the brain.
NBL 298. Special Topics Neuroscience 4. 1 Hour.
This course covers different topics that have to do with Neurobiology.
NBL 310. Evolution of the Vertebrate Brain. 3 Hours.
NBL 311. From Wet Brains to Artificial Stupidity. 1-3 Hour.
NBL 323. Special Topics Neurobiology 1. 1 Hour.
This course covers different topics that have to do with Neurobiology.
NBL 325. Special Topics Neurobiology 3. 2 Hours.
This course covers different topics that have to do with Neurobiology.
NBL 327. Special Topics Neurobiology 4. 3 Hours.
This course covers different topics that have to do with Neurobiology.
NBL 330. Neuroscience: Brain Function and Dysfunction. 3 Hours.
This course is an introduction to brain function. The topics range from the molecular to the behavioral. The structure of brains (insects to humans) and their key elements, neurons and glia, are discussed. We will focus on how it converts this input into electrical impulses, which then cause the release of a chemical messenger that influences the activity of other neurons (and glia) and ultimately generates behavior.
NBL 355. Cellular & Molecular Neuroscience. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize the development, anatomy, cellular and molecular biology and biochemistry of neurons and glial cells, and introduce electrical, biophysical and chemical signaling within and across neurons.
NBL 356. From Systems to Cognitive Neuroscience. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize mechanisms of synaptic transmission, sensory systems, neuropharmacology, and synaptic plasticity; and introduce the molecular basis of diseases and disorders of the central and peripheral nervous systems.
Prerequisites: PY 355 [Min Grade: C] or NBL 355 [Min Grade: C]
NBL 390. Neurobiology Research Laboratory. 3 Hours.
Hands-on instruction will be provided in contemporary methods used in neurobiology research. These will include molecular cloning, DNA sequencing, cell transformation and culture, western blotting, immunohistochemistry and electrophysiology.
NBL 398. Rescg Prac in Neurobiology-RES. 1-6 Hour.
Project or research activity supervised by faculty. Cannot be taken Pass/ Fail.

NBL 399. Senior Seminar in Neuroscience. 3 Hours.
All (Thesis Track) Neuroscience majors will participate in the Senior Seminar, which is a capstone experience in their study of Neuroscience. The seminar will meet weekly for in-depth discussions of current topics in neuroscience. Over the course of the semester, students will independently develop and complete a capstone research paper on a topic of their choosing while working closely with a supervising faculty member. The research report serves as a culminating academic and intellectual experience that works to develop critical thinking, research skills, and both written and oral communication. Students will present their papers at the completion of the course. (Fall and Spring availability).

NBL 401. Colloquium in Basic, Cognitive and Clinical Neuroscience. 1 Hour.
The Colloquium in Basic, Cognitive and Clinical Neuroscience is a faculty seminar. The Colloquium will expose students to cutting edge research programs and technologies from approximately 25 faculty each year who serve as mentors for the Undergraduate Neuroscience Major and Graduate Neuroscience Program. Faculty will also discuss strategies for development of careers in medicine and research. Students will prepare by reading an assigned research article authored by the speaker and be prepared for a group discussion. Class meets for one and a half hours a week.

NBL 410. Special Topics in Neuroscience. 3 Hours.
Molecular Neuroscience will provide students an advanced understanding of how the brain works with a focus on protein function. Everything the brain does is built upon the actions of proteins, many of which are completely unique to the brain. Together we will work to thoroughly understand the exact molecular mechanisms utilized by the brain to support the complex function of our most fascinating organ. Topics covered will include brain morphogenesis, axonal outgrowth, synapse formation, neurotransmitter biosynthesis, intracellular signaling, and the blood brain barrier. This lecture course is designed to fulfill a neuroscience major’s requirement for an advanced course. Non-neuroscience majors should seek course master approval before enrolling and must have a significant background in biology and/or chemistry. Students will be required to purchase a text. Grades will be assigned based on points accumulated through weekly quizzes, cumulative exams, and written reports.

Prerequisites: (NBL 230 [Min Grade: C] or PY 253 [Min Grade: C]) and (NBL 355 [Min Grade: C] or PY 355 [Min Grade: C]) and (NBL 356 [Min Grade: C] or PY 356 [Min Grade: C])

NBL 425. Methods in Human Neuroimaging. 3 Hours.
Cognitive neuroscience research has provided valuable insights into the workings of the human brain. The ability to perform neuroimaging studies on awake human individuals engaged in cognitive, social, sensory, and motor tasks has produced a conceptual revolution in the study of human cognition. This course will comprehensively examine the methods and techniques in neuroimaging with the primary goal of building basic knowledge in the concepts and techniques of neuroimaging. The course will explore techniques, such as single and multi cell recordings, deep brain stimulation, electroencephalography, magnetoencephalography, and diffusion tensor imaging, and focuses on functional magnetic resonance imaging. Course goals: By the end of the course, students will have gained basic knowledge in the field and will be able to read and critically assess scientific journal articles that make use of a variety of neuroimaging methods. The secondary and implicit goal of this course is to create and nurture, in students, a genuine interest in neuroscience and neuroimaging.

NBL 430. Neurodevelopment and its Disorders. 3 Hours.
This course will cover fundamental principles of brain development in the context of neurodevelopmental disorders associated with autism and intellectual disability. We will meet 3 times a week for 1 hour lectures by the course director and at least 4 other faculties from Neurobiology and Psychology.

NBL 433. Diseases of the Nervous System. 3 Hours.
Molecular mechanisms and treatments for neurological, psychiatric, and injury based disorders and diseases of the nervous system. Topics include neurodevelopmental disorders (including intellectual disability and autism spectrum disorders), neurological disorders (including neurodegenerative and demyelinating disease), neuropsychiatric disorders (including depression disorders and schizophrenia), and injury to the nervous system (including stroke and traumatic brain and spinal cord injury).

Prerequisites: PY 356 [Min Grade: C] or NBL 356 [Min Grade: C]

NBL 434. Mechanisms of Memory. 3 Hours.
Molecular, cellular, systems and medical components of neuroscience, with an emphasis on cognition and cognitive disorders. Covers topics ranging from genes and molecules to human behavior, using cognitive function and clinical cognitive disorders as the uniting theme, with a focus on learning and memory and disorders of these processes.

Prerequisites: (NBL 355 [Min Grade: C] or PY 355 [Min Grade: C]) and (NBL 356 [Min Grade: C] or PY 356 [Min Grade: C])

NBL 440. Special Topics Neuroscience 1. 1 Hour.
This course covers different topics that have to do with Neurobiology.

NBL 442. Sp Tp Neuroscience 2. 2 Hours.
This course covers different topics that have to do with Neurobiology.

NBL 444. Special Topics Neuroscience 3. 3 Hours.
This course covers different topics that have to do with Neurobiology.

NBL 446. Special Topics Neuroscience 4. 4 Hours.
This course covers different topics that have to do with Neuroscience.

NBL 454. Mind/Brain Course. 3 Hours.

NMT-Nuclear Medicine Tech Courses
**Courses**

**NMT 304. Physics for Technologists. 8 Hours.**
Mechanics, static and dynamic fluids, wave motion, heat, sound, electricity, magnetism, and light; fundamental concepts of physics with mathematical formulation to enhance problem-solving skills.

**Prerequisites:** MA 105 [Min Grade: C] or MA 106 [Min Grade: C]

**NMT 320. Human Pathophysiology. 3 Hours.**
Introduction to basic disease concepts, theories of disease causation and pathophysiologic disorders most frequently encountered in clinical practice.

**Prerequisites:** BY 115 [Min Grade: C] and BY 116 [Min Grade: C]

**NMT 400. Intro to Clinical Nuclear Medicine Technology. 2 Hours.**
Overview of professional organizations and nuclear medicine; hospital organization; medical terminology; medical records; introduction to other aspects of nuclear medicine technology including ethics concerning the hospital setting; writing assignments on professionalism and hospital ethics. Writing and Ethics and Civic Responsibility are significant components of this course.

**NMT 401. Introduction to MRI Clinic. 2 Hours.**
This course is designed to provide students with the practical aspect of Magnetic Resonance Imaging. The role of MRI technologists, patient management, MRI screening and safety procedures, quality assurance procedures and FDA guidelines will be discussed.

**Prerequisites:** NMT 424 [Min Grade: C] or NMT 417 [Min Grade: C]

**NMT 404. Patient Care. 2 Hours.**
Basic patient care theory and techniques including standard precautions, infection control, vital signs, venipuncture, patient transfer techniques, immobilization techniques, aseptic and nonaseptic techniques, oxygen administration, and medical emergencies which are required for nuclear medicine students prior to entering clinical training.

**NMT 405. Cross-Sectional Anatomy. 3 Hours.**
Integration of the knowledge of gross anatomy with the identification and location of structures in cross-sectional images. Computer Tomography (CT), Magnetic Resonance (MR), and Diagnostic Ultrasound (US) images in various anatomical planes will be used to locate and identify anatomical structures.

**NMT 410. Medical Radiation Physics. 4 Hours.**
Qualitative and quantitative concepts of radiation physics pertaining to medical applications in nuclear medicine, radiology, and radiation therapy; atomic and nuclear structure, radioactive decay, properties of radiation; x-ray production; artificial production; photon interactions in matter and shielding attenuation processes.

**Prerequisites:** MA 105 [Min Grade: C] or MA 125 [Min Grade: C]

**NMT 421. Instrumentation I. 3 Hours.**
Theoretical and practical concepts in radiation detection instrumentation; calibration; maintenance standards; practical uses of gaseous detectors, scintillation detectors, and multichannel analyzers; quality assurance testing for nuclear medicine instrumentation including GM detectors, ionization chambers and scintillation detectors; gamma spectrometry of all commonly used nuclear medicine radionuclides. Principles of in vivo and in vitro counting and imaging using probe counters, well counters, and scintillation gamma cameras; scintillation gamma camera quality control; types of collimators used in nuclear medicine, their use and function.

**Prerequisites:** NMT 420 [Min Grade: C]

**NMT 421L. Instrumentation I Laboratory. 1 Hour.**
Introduction to basic radiation and nuclear counting instrumentation. Utilizing proper calibration of the Multi-Channel Analyzer (MCA) and Geiger Muller (G-M) Counter. Determine the proper operating voltage, detector efficiency, window width, and amplifier gain and energy resolution of the MCA. Proper counting statistics and dual isotope counting labs will emphasize the importance of proper use of nuclear counting instrumentation.

**NMT 422. Instrumentation II. 3 Hours.**
Applies computer fundamentals to the acquisition and processing of nuclear medicine patient data. Quantitative planar studies as well as SPECT/PET image reconstruction, filtering, and attenuation correction are presented. Quality control of SPECT and PET camera system.

**Prerequisites:** NMT 421 [Min Grade: C]

**NMT 423. Computed Tomography. 3 Hours.**
Provide theoretical principles of Computed Tomography (CT) using the historical development of CT and the physical principles underlying CT scanning. CT Instrumentation, data acquisition, data processing, and image quality.

**NMT 424. Physics/Instrumentation of Nuclear Magnetic Resonance. 3 Hours.**
Fundamental physical principle of nuclear magnetic resonance, including structure of atom, concept of resonance, Larmor frequency, gyromagnetic ratio, T1 and T2 and methods of generating magnetic fields; theory of operation of NMR spectrometers and imagers, including function of basic components, effects of linear gradients, signal processing, slice definition and image reconstruction.

**NMT 431. Nuclear Medicine Procedures I. 4 Hours.**
Study of the utilization of nuclear medicine procedures and the nuclear medicine technologist’s responsibilities in completing a procedure involving the skeletal, respiratory, endocrine, gastrointestinal and genitourinary systems. Anatomy and relevant concepts in physiology are reviewed and applied to each procedure. Common pathologies demonstrated with each procedure are also discussed.

**Prerequisites:** BY 115 [Min Grade: C] and BY 116 [Min Grade: C]

**NMT 432. Nuclear Medicine Procedures II. 4 Hours.**
Instruction of various nuclear medicine procedures and the nuclear medicine technologist’s responsibilities for completing a procedure involving nuclear cardiology, oncology, central nervous and hematopoietic systems and applications of position emission tomography. Anatomy and relevant concepts in physiology are reviewed and applied to each procedure. Common pathologies demonstrated with each procedure and the basics of three and twelve lead ECGs.

**Prerequisites:** NMT 431 [Min Grade: C]

**NMT 433. Computed Tomography Procedures. 3 Hours.**
Provide a solid foundation of Computed Tomography (CT) Procedures through basic CT scanning concepts and image quality, detailed discussions about CT positioning criteria, specific selections, and options in protocols. Understanding concepts in advanced CT including interventional imaging, virtual reality imaging, positron emission tomography and special procedures.

**Prerequisites:** NMT 405 [Min Grade: C] or RTT 402 [Min Grade: C] and NMT 423 [Min Grade: C]. Can be taken Concurrently or RTT 403 [Min Grade: C]
NMT 434. MRI Scanning and Sequence. 3 Hours.
This course will provide the students with a solid foundation of the magnetic resonance imaging (MRI) modality. Basic MRI theory will be reviewed along with detailed discussion imaging sequences, parameter optimizations, and imaging procedures will be extensively discussed. Advanced concepts such as flow imaging, and MR spectroscopy will also be discussed.
Prerequisites: NMT 405 [Min Grade: C] and NMT 424 [Min Grade: C]

NMT 441. Radiation Protection and Biology. 3 Hours.
Principles and methods of radiation protection, health physics units, measurement, and dose limiting regulations for occupationally and non occupationally exposed individuals; radiation surveys; techniques and decontamination methods, monitoring of radioactive waste, radiation dose measurements, and radionuclide accountability; special topics, including precautions with brachytherapy patients, with patients receiving therapeutic amounts of radionuclides, and in management of accidentally contaminated individuals. Physical, chemical and biological mechanisms involved in action of different types of radiations on living cells and their components are covered. Emphasis is given to being able to interpret how to respond to a malicious radiological exposure incident in an appropriate manner.
Prerequisites: NMT 410 [Min Grade: C]

NMT 442. Application of Radiation Protection and Biology. 1 Hour.
Introduction to basic radiation physics and protection radiation protection experiments, emphasizing the ALARA concept; basic concepts of radiation safety (including time, distance and appropriate shielding), half-lives, half value layers for different absorbers and radioisotopes, the inverse square law, semi-log graphing and calibration and use of nuclear counting instrumentation; proper calibration and use of the Multi Channel Analyzer (MCA) and Geiger Muller (G-M) Counter; proper operating voltage, detector efficiency, and window width, proper counting statistics and dual isotope counting labs.

NMT 443. Regulatory Issues. 2 Hours.
Basic knowledge of appropriate rules, regulations and work practices governing the use of radioactive materials in the medical setting to plan for and participate in a successful radiation safety compliance management program.

NMT 451. Communication Skills. 1 Hour.
This course explores the nature of the patient-technologist relationships, technologist-hospital professional relationship and the role of the technologist as a patient educator. Therapeutic communication skills, interviewing skills, and the psychosocial aspects of being a patient are discussed.

NMT 452. Health Law for NMT. 1 Hour.
Introduction to medical law and ethics presenting an overview of major ethical theories and their relation to health law. Topics covered include ethical dilemmas and ethical decision making models and their application to clinical practice; legal principles and their application to healthcare; issues concerning professional liability, informed consent, and malpractice.

NMT 453. Seminar III. 1 Hour.
Review of current literature applied to case study presentation.

NMT 460. Radiochemistry and Radiopharmacy. 2 Hours.
Introduction to fundamentals of radiopharmacy including radionuclide generator design and operation, labeling and quality control of Tc-99m labeled compounds, unit dose preparation and a review of federal regulations pertinent to radionuclides and radiopharmaceuticals; radiopharmaceutical design, IND process and the basic concepts of internal radiation dosimetry.
Prerequisites: NMT 410 [Min Grade: C] and NMT 411 [Min Grade: C] and NMT 420 [Min Grade: C] and NMT 421 [Min Grade: C] and NMT 431 [Min Grade: C] and NMT 432 [Min Grade: D] and NMT 440 [Min Grade: D]

NMT 461. Radiopharmacy and Pharmacology Laboratory. 1 Hour.
Utilizing the fundamentals of radiopharmacy including radionuclide generator design and operation, labeling and quality control of Tc-99m labeled compounds, unit dose preparation, and a review of federal regulations pertinent to radionuclides and radiopharmaceuticals along with the radiopharmaceutical design and the IND process and basic concepts of internal radiation dosimetry.

NMT 491. Clinical Practice I. 5 Hours.
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.

NMT 492. Clinical Practice II. 7 Hours.
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.
Prerequisites: NMT 491 [Min Grade: C]

NMT 493. Clinical Practice III. 4-10 Hours.
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.
Prerequisites: NMT 492 [Min Grade: C]

NMT 494. CT Clinical Practice. 12 Hours.
Clinical application of the nuclear medicine program concepts with opportunity to observe, work, and train to become certified in CT; performance evaluated through clinical experiences, final evaluation, and a self-assessment.

NMT 495. MRI Clinical Practice. 12 Hours.
Clinical application of the nuclear medicine program concepts with opportunity to observe, work, and train to become certified in MRI; performance evaluated through clinical experiences, final evaluation, and a self-assessment.

NMT 499. Correlative Imaging. 3 Hours.
Capstone course encompassing all aspects of the nuclear medicine technology program to investigate and analyze the multifaceted nature of disease diagnosis and treatment in the United States, current trends in healthcare costs and payment methods, and healthcare disparities associated with these imaging tests. This course consists of the three aspects of the University Quality Enhancement Plan including Ethics and Civic Responsibility, Writing and Quantitative Literacy.
NS 101. Succeeding in the Sciences. 1 Hour.
This one credit-hour course is designed to introduce freshmen NSM majors to the tools and techniques that will enhance their transition to college and improve their academic success. Goal setting, critical thinking, note-taking, time management, and other academic skills applicable to success in all NSM majors will be addressed along with exploring career options and gaining insight into the scientific approach used by faculty in their research.

NTR-Nutrition Sciences

Courses

NTR 220. Contemporary Issues in Nutrition. 3 Hours.
Contemporary Issues in Nutrition is designed for non-health professional majors and will be particularly beneficial to those in education, communications, and business fields of study.

NTR 222. Nutrition and Health. 3 Hours.
Introduction to principles of nutrition; essential nutrients and their relation to growth, maintenance, and optimal functioning of the body; dietary recommendations to promote wellness and prevent chronic disease.
Prerequisites: CH 107 [Min Grade: D] and CH 108 [Min Grade: D]

NTR 225. Promoting Nutrition and Wellness for Healthy Communities. 3 Hours.
This course will introduce students to one of the most critical health issues in the US today, poor nutrition, unhealthy life styles and their consequences including the epidemic of obesity. Students will learn about the diverse range of individuals impacted by this issue and will discover the range of prevention, education and support services that are offered. This course will cover the following aspects of unhealthy lifestyles/poor nutrition: history and systemic causes, education and prevention, including policy and advocacy. The course is also designed to present a multicultural perspective on the issues and students will be encouraged to engage in service-learning in the field, read literature, listen to speakers and interact with individuals representing a range of ages, genders, ethnicities and socioeconomic status.

NTR 232. Lifecycle Nutrition. 3 Hours.
Role of nutrition and dietary factors on the growth, development, and maintenance of health throughout the human life cycle. Nutritional guidelines/recommendations, special nutritional needs, physiology, and nutritional health concerns for each stage of the human lifecycle, from preconception through adulthood and aging.

NTR 320. Nutrition and the Consumer. 3 Hours.
Contemporary nutrition topics that affect consumers, such as dietary supplements, food additives, food safety, food, genetically modified organisms in foods & integrative medicine. Techniques to communicate nutrition information to consumers.

NTR 330. Nutrition and Metabolism. 3 Hours.
Metabolism and functions of nutrients after mixed meal intakes, including USDA MyPlate, low-carbohydrate or low-fat diets; biosynthesis of vitamins and co-factors and whole food sources; human requirements for energy, amino acids, minerals, and vitamins; food fortification; current human nutritional challenges and diseases.

NTR 420. Nutritional Genetics. 3 Hours.
How behavioral practices, environmental influences, and genetic makeup interact to influence individual preferences and responses to foods. Models to incorporate the interaction of these factors in developing potential strategies to prevent disease and achieve better nutritional health.

NTR 421. Nutrition Assessment and the Nutrition Care Process. 3 Hours.
Introduction to the Nutrition Care Process (NCP), a systematic approach to providing high-quality nutrition care. The NCP provides a framework for critical thinking and decision making. Gain factual knowledge, learn to apply course material through case study application, and explore fundamental principles in medical nutrition related content areas.
Prerequisites: NTR 222

NUR-Nursing Courses

Courses

NUR 100. Student Success in Nursing. 2 Hours.
This course will provide instruction regarding the competencies developed by the university to assist pre-nursing freshman students in making the transition from high school to college. Within the competencies specified by the university, students will be exposed to related topics in the School of Nursing (SON). Faculty expectations and student responsibilities will not only focus on the pre-nursing general studies but also will facilitate a platform for introducing expectations of faculty in the SON. Students will be prepped for the SON admission process, emphasizing the importance of good study habits, time management, and test taking skills. Student will visit the SON historical archive and the Lister Hill Library to view the Nightingale letters. CPR, basic skills, and a shadowing experience will give the students a sense of the holistic approach to the nursing model of care.

NUR 101. Survey of the Profession of Nursing. 2 Hours.
Will provide a greater knowledge of the nursing profession to assist pre nursing freshmen students in making their final decision regarding their application to nursing school. Within the competencies specified by the university, students will also be exposed to related topics in the School of Nursing (SON). Faculty expectations and students responsibilities will not only focus on careers in nursing but also will facilitate a platform for introducing students to nursing regulation and career opportunities. The nursing curriculum will be presented and pedagogical links will be made between selected websites and the need for that knowledge for future registered nurses. Students will also be prepped for the licensure process, emphasizing the importance of high moral character. Guest speakers representing select Advanced Practice Nursing Roles will be available to answer questions and discuss their experiences as advanced practice nurses. Students will conclude the semester with scholarly paper on the topic of their choice.

NUR 305. Principles of Oncology Nursing. 3 Hours.
This course provides a theoretical base for students to diagnose and manage oncology health problems in adults. Emphasis is placed on integration of knowledge of pathophysiology, clinical assessment, and nursing and medical management.
Prerequisites: NUR 334 [Min Grade: C] or NUR 347 [Min Grade: C]
NUR 307. Interprofessional Global Health Service Learning I. 1 Hour.
This course provides students with an opportunity to apply principles of interprofessional collaboration, community partnerships, and global health in the development of a plan to address a global health problem in collaboration with a community partner. Students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the ecological framework developing a plan to address a specific global health problem with a community partner. The course focuses on planning a service learning project that will benefit a community partner. The project is planned and carried through by an interprofessional team. The course is primarily experiential, with students’ time spent on planning the project and learning leadership and project planning skills.

NUR 308. Interprofessional Collaboration (IPC) and Community Partnerships in Global Health. 1 Hour.
This course provides students with an understanding of principles of interprofessional collaboration and community partnerships that, together with key social and economic concepts of global health, enables them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners. Working in interdisciplinary teams, students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the socioecological framework to develop a plan to address a specific global health problem with a community partner.

NUR 309L. Veterans Transition to Professional Nursing. 4 Hours.
The purpose of this course is to develop the skills necessary to complete a holistic assessment and to apply fundamental nursing concepts and processes in providing safe, quality family centered nursing care in a variety of settings, focusing on medically under-served populations. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the professional attributes of the nurse, legal and ethical implications for nursing practice and beginning care competencies.

NUR 310. Concepts of Professional Nursing. 3 Hours.
The purpose of this course is to introduce fundamental nursing concepts and processes of professional nursing that assist in providing safe, quality nursing care to clients and their families. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the professional attributes of the nurse, legal and ethical implications for nursing practice and beginning care competencies.

NUR 311L. Nursing Skills Development I. 2 Hours.
The purpose of this course is to introduce the fundamental nursing skills required to provide safe, quality care. The course focuses on the role of the nurse as caregiver. Emphasis is on basic psychomotor skills and beginning care competencies.

NUR 312. Health Assessment Across the Lifespan. 2 Hours.
The purpose of this course is to develop the skills necessary to complete a holistic assessment including physiological, spiritual, cultural, psychological, and developmental components. The course focuses on the role of the nurse as caregiver and educator. Emphasis is placed on the skills and clinical reasoning necessary to assess clients/patients across the lifespan.

NUR 313L. Concepts of Professional Nursing Practicum. 2 Hours.
The purpose of this course is to apply fundamental nursing concepts and processes in providing safe, quality family centered nursing care in a variety of settings. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the professional attributes of the nurse, legal and ethical implications for nursing practice and beginning care competencies.

The purpose of this course is to introduce foundational pathophysiological and pharmacokinetic concepts and processes. Emphasis is on cellular injury, immunity, fluid/electrolytes, genetics, pharmacokinetics, and medication calculation.

NUR 315. Population Focused Health Care. 2 Hours.
The purpose of this course is to introduce health care delivery systems, behaviors and practices that affect the health status and well-being of populations (or the “overall health of populations”). The focus is on the role of the nurse as caregiver, advocate, and collaborator. Emphasis is on strategies related to health promotion, illness and injury prevention, health literacy and cultural competency to improve the care of individuals, families, groups, communities and populations.

NUR 320. Social Responsibility in Global Health. 1 Hour.
This course provides students with an understanding of key social and economic concepts of global health that, together with an understanding of interprofessional collaboration and community partnerships, will enable them to participate in developing and implementing sustainable global health projects in collaboration with local and international community partners. The course is open to undergraduate and graduate students who are enrolled in two co-requisite courses that are requirements for students participating in the interprofessional global health service learning program at the University of Alabama at Birmingham. Working in interdisciplinary teams, students apply concepts and theories related to global health, interprofessional collaboration, team building, community partnerships, and the socioecological framework to develop a plan to address a specific global health problem with a community partner.

NUR 321L. Nursing Skills Development II. 1 Hour.
The purpose of this course is to build on nursing skills attained in Nursing Skills Development I to provide safe, quality nursing care. The course focuses on the role of the nurse as caregiver and collaborator. Emphasis is on clinical reasoning and intermediate psychomotor skills and care competencies.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: P] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 322. Concepts of Behavioral Health Nursing. 3 Hours.
The purpose of this course is to introduce concepts of mental health and mental illness throughout the lifespan with consideration given to therapeutic communication and the implementation of safe, quality nursing care to clients and their families. Focus is on the roles of the nurse as caregiver, educator, counselor, advocate, and care manager. Emphasis is on the professional attributes of the nurse concerning legal, ethical, and cultural implications for nursing practice across the mental health-illness continuum.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 323L. Concepts of Behavioral Health Nursing Practicum. 2 Hours.
The purpose of this course is to implement therapeutic communication and safe, quality, family-centered nursing care to clients in mental health settings. Focus is on the roles of the nurse as caregiver, educator, counselor, advocate, and care manager. Emphasis is on the professional attributes of the nurse concerning legal, ethical, and cultural implications for nursing practice across the mental health-illness continuum.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]
NUR 324. Pharmacotherapy & Disease Process II. 3 Hours.
The purpose of this course is to build on the knowledge gained in NUR 314 and emphasizes the application of principles of pathophysiology and pharmacotherapies to body systems. Content will align with concepts taught in Concepts of Behavioral Health and Concepts of Adult Health Nursing I.

Prerequisites: NUR 314 [Min Grade: C]

NUR 326. Concepts in Adult Health Nursing I. 3 Hours.
The purpose of this course is to introduce the student to alterations in regulation and homeostasis, protection and movement, oxygenation and coping and stress tolerance. The course focuses on the role of the nurse as caregiver and educator. Emphasis is on the nursing care and management of young, middle-age, and older adults.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 327L. Concepts of Adult Health Nursing I Practicum. 2 Hours.
The purpose of this course is to apply knowledge related to alterations in regulation and homeostasis, oxygenation and protection and movement to the care of young, middle age, and older adults. The course focuses on the role of the nurse as caregiver, educator, and advocate. Emphasis is on the nursing care and management of young, middle-age, and older adults.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 333. Growth and Development. 3 Hours.
The content of this course is centered around major theories of development; including physiological, psychoanalytic, social, stimulus-response, cognitive and moral. Current areas and findings of research are investigated and research designs and methods are critiqued. Self-selected in depth studies are made and shared. Contributions of the study of development functional practice of nursing are demonstrated. Admission to the School of Nursing is required.

NUR 334. Pharmacotherapy Disease Process III. 2 Hours.
This course is a continuation of Pharmacotherapy & Disease Process II. Emphasis is on the application of principles of pathophysiology and pharmacotherapies to body systems. Content will align with concepts taught in Concepts of Adult Health Nursing II and Concepts of Maternal Child Health Nursing.

Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C] and NUR 324 [Min Grade: C]

NUR 335. Issues in Women’s Health. 3 Hours.
This course will identify a broad range of health issues that are either unique to women or of special importance to women and will also examine the roles that women play as both providers and consumers of health care in the United States. The student will also provide with the opportunity to explore health care issues of women from adolescence through old age. The interface of gender, socio-economic disadvantages and minority status will be discussed. Feminist theory will provide the framework for exploring these issues. A primary object of this course is enabled the student to become an informed consume of health care services.

NUR 336. Leadership. 2 Hours.
The purpose of this course is to introduce concepts of leadership development. The focus is on the roles of leader, advocate and collaborator. Emphasis is on the development of individual leadership knowledge and skills.

NUR 345L. Basic Nursing and Health Assessment Skills. 4 Hours.
NUR 345L provides basic nursing and health assessment skills that will form the foundation for more complex knowledge and skills in subsequent nursing courses. Legal and ethical (e.g., confidentiality, documentation), communication, and health concepts are reinforced throughout the course. The role of caregiver is presented as an integral part of the health care team. Learning experiences occur in the nursing skills laboratory and are essential to the course. Although knowledge and skills in this course are focused on adults, many of the concepts are adaptable to care of patients of all ages and target populations. Admission to the School of Nursing is required.

NUR 346. Pathophysiology for Professional Nursing. 3 Hours.
This course builds on the knowledge of basic anatomy and physiology to provide the adult learner with an opportunity to apply previously learned principles in explaining physiologic adaptations to pathogenic changes for the purpose of enhancing nursing care of patients. The first part of the course emphasizes the basic concepts of pathophysiology including cellular level of response, genetic alterations, fluid and electrolytes, acid-base balance, and immune response. The second part of the course focuses on the application of the basic concepts to body systems and disease processes. The relationship between pathophysiologic concepts and nursing care of clients will be emphasized throughout the course. Admission to the School of Nursing is required.

NUR 347. Pathophysiology for Professional Nursing Practice for RNs. 3 Hours.
This course builds on basic anatomy and physiology to provide the adult learner with an opportunity to apply previously learned principles in explaining physiologic adaptations to pathogenic changes for the purpose of enhancing nursing care of patients. The first part of the course emphasizes the basic concepts of pathophysiology: cellular level of response, genetic alterations, fluid and electrolytes, acid-base balance, and immune response. The second part of the course focuses on the application of the basic concepts to body systems and disease processes. The relationship between pathophysiologic concepts and nursing care of clients will be emphasized throughout the course. Admission to the RN Mobility Program required.

NUR 355. Foundations of Professional Nursing. 4 Hours.
NUR 355 focuses on the practice of professional nursing as an evidence-based, goal-directed activity for assisting patients to achieve optimal health by meeting basic human needs, providing holistic care, and engaging in health promotion. Concepts of communication, interpersonal relationships, and nursing process as a clinical decision-making strategy are introduced. Chronic and long-term internal and external environmental variables that affect the health of adults are explored. The professional role of the caregiver is developed in diverse learning experiences. Admission to the School of Nursing is required.

NUR 356L. Foundations of Professional Nursing Practicum. 3 Hours.
In this practicum component of Foundations of Professional Nursing, students are guided in the application of content studied in the theoretical portion of the course. Competencies needed by the nurse generalist in the care of adult patients are introduced and practiced. Critical thinking and clinical decision-making skills utilized by the nurse caregiver are emphasized in diverse health care settings. Admission to the School of Nursing is required.
NUR 376. Nursing of the Older Adult. 3 Hours.
NUR 376 focuses on the unique needs of older adult patients who require nursing care in a variety of health care settings. The older adult as a heterogeneous, holist person is emphasized in light of current and future health care needs. Concepts of healthy aging, and care in the preventive, restorative, acute and chronic domains will be explored. The professional role of the nurse as advocate is developed in diverse learning activities.
Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: C] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C])

NUR 378. Nursing of the Older Adult for RNs. 3 Hours.
NUR 378 focuses on the unique needs of older adult patients who require nursing care in a variety of health care settings. The older adult as a heterogeneous, holist person is emphasized in light of current and future health care needs. Concepts of healthy aging, and care in the preventive, restorative, acute and chronic domains will be explored. The professional role of the nurse as advocate is developed in diverse learning activities. Admission to the RN Mobility Program required.

NUR 380. Spanish for Health Professionals. 3 Hours.
Intensive conversation to acquaint health professionals with intermediate structure of Spanish. The course focuses on practical vocabulary, idiomatic expressions, medical terminology and cultural patterns of Spanish-speaking patients.

NUR 381. Informatics and Research for Nursing Practice for RNs. 4 Hours.
This course is designed to prepare students with the knowledge and skills to: (1) locate and evaluate research relevant to nursing practice; (2) use a problem solving approach to examine questions identified in nursing practice, and; (3) identify technological solutions to enhance patient safety and outcomes. Quantitative Literacy is a significant component of this course.

NUR 383. Health Literacy Identifying Risk Populations. 3 Hours.
NUR 383 is designed to provide students with a greater understanding and an improved knowledge level regarding the importance of health literacy and the challenges presented by low health literacy. Interventions and planned programs that are effective in the identification of low health literacy in America will be introduced to the student. The course will provide insight to the multidimensional nature of low health literacy and provide examples of multidisciplinary research in health literacy.

NUR 385. Nursing of the Psychiatric Mental Health Client. 3 Hours.
Content in NUR 385 will emphasize communication and therapeutic nursing interventions for clients adapting to internal and external environmental variables affecting mental health and psychopathology. The course focuses on the use of critical thinking and clinical decision-making skills in the promotion, maintenance and restoration of optimum mental health of individuals and families. Emphasis is placed on the independent and collaborative roles of nursing in identifying risk factors for mental disorders, assessing mental health status, and designing and implementing psychobiological and psychosocial interventions associated with expected therapeutic outcomes.
Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: P] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C]) and NUR 370 [Min Grade: C] (Can be taken Concurrently)
NUR 386L. Nursing of the Psychiatric Mental Health Client Practicum. 2 Hours.
This clinical course is focused on promotion, maintenance and restoration of mental health of individuals and families. Clinical experiences provide students with opportunities to utilize skills in the therapeutic use of self, critical thinking, and nursing process with clients in psychiatric mental health clinical settings.

Prerequisites: NUR 355 [Min Grade: C] and NUR 356L [Min Grade: C] and NUR 345L [Min Grade: C] and (NUR 346 [Min Grade: C] or BY 346 [Min Grade: C] or BY 216 [Min Grade: C]) and NUR 370 [Min Grade: C] (Can be taken Concurrently)

NUR 387. Supplemental Academic Course for Support (SACS). 1-3 Hour.
The purpose of this distance-accessible course is to introduce a structured format for students to review nursing concepts and processes related to a specific patient population. The course focuses on the role of the nurse as caregiver. Emphasis is on test-taking strategies and the review of didactic content to strengthen the student's knowledge base.

NUR 388. Concepts of Adult Health Nursing II. 3 Hours.
The purpose of this course is to augment previous knowledge gained in Concepts of Adult Health Nursing I related to regulation and homeostasis, protection and movement, coping and stress tolerance and oxygenation. The course focuses on the role of the nurse as caregiver, manager, collaborator, and educator. Emphasis is on the nursing care and management of young, middle-age, and older adults.

Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: C] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 327L [Min Grade: C] and NUR 336 [Min Grade: C]

NUR 389L. Concepts of Adult Health Nursing II Practicum. 2 Hours.
The purpose of this course is to apply the expand role of the nurse in providing care for patients with alterations in regulation and homeostasis, oxygenation, and protection, and movement. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, and educator. Emphasis is on the nursing care and management of young, middle-age, and older adults.

Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: C] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 327L [Min Grade: C] and NUR 336 [Min Grade: C]

NUR 390. Independent Study in Nursing. 1-6 Hour.
Individually designed learning experiences. Must be a junior year nursing student and have a written Independent Study contract signed by the faculty and the Associate Dean.

NUR 391. Independent Study in Nursing. 1-6 Hour.
Individually designed clinical learning experiences. Must be a junior year nursing student and have a written Independent Study contract signed by the faculty and the Associate Dean.

NUR 392. Concepts of Maternal Child Health Nursing. 4 Hours.
The purpose of this course is to build upon knowledge gained in previous nursing and pre-nursing courses in the care of childbearing and childrearing families. This course focuses on the role of the nurse as educator, caregiver, collaborator, and advocate. The course emphasis is on the application of theoretical and empirical knowledge from nursing and the scientific and humanistic disciplines to the nursing care of neonates, infants, children, adolescents, and adult women in diverse care settings.

Prerequisites: NUR 388 [Min Grade: C] and NUR 334 [Min Grade: C] and NUR 389L [Min Grade: C] and NUR 409 [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: P]

NUR 393L. Concepts of Maternal Child Health Nursing Practicum. 3 Hours.
The purpose of this course is to provide nursing practice opportunities to build upon knowledge and skills gained in previous nursing, pre-nursing and Concepts of Maternal Child Health Nursing. This course focuses on implementing the roles of the nurse as educator, caregiver, collaborator, and advocate. The course emphasizes the application of theoretical and empirical knowledge to the nursing care of neonates, infants, children, adolescents and adult women in diverse care settings.

Prerequisites: NUR 388 [Min Grade: C] and NUR 334 [Min Grade: C] and NUR 389L [Min Grade: C] and NUR 409 [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: P]

NUR 395. Community and Public Health Nursing. 3 Hours.
In this theory course, students will analyze theories, processes, issues, demographic data and epidemiological trends that affect population aggregates within diverse communities. Emphasis is on professional role development to promote nursing care focused on illness and injury prevention, health promotion, health maintenance, health education, and coordination of care for diverse aggregate groups in various community settings. Ethics and Civic Responsibility are significant components of this course.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 385 [Min Grade: C](Can be taken Concurrently) and NUR 386L [Min Grade: C](Can be taken Concurrently) and NUR 376 [Min Grade: C](Can be taken Concurrently)

NUR 396L. Community and Public Health Nursing Practicum. 2 Hours.
In this practicum course, nursing students complete a portion of their clinical hours to advance the mission of social justice in health care through community engagement and service learning. Students apply community and public health concepts through engagement within communities as they implement the nursing process with diverse populations at various community sites; in simulated clinical activities; and at assigned community-based clinical facilities. Emphasis is on professional nurse role development focused on illness and injury prevention, health promotion, health maintenance, health education, and coordination of care for aggregate groups across the life span.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 385 [Min Grade: C](Can be taken Concurrently) and NUR 386L [Min Grade: C](Can be taken Concurrently) and NUR 376 [Min Grade: C](Can be taken Concurrently)
NUR 397. Community and Public Health Nursing for RNs. 4 Hours.
In this theory course, students will analyze theories, processes, issues, demographic data and epidemiological trends that affect the population aggregates within communities. Emphasis is on professional role development to promote nursing care focused on illness and injury prevention, health promotion, health maintenance, health education, and coordination of care for diverse aggregate groups in various community settings. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: NUR 374 [Min Grade: C] and NUR 474 [Min Grade: C] and NUR 475 [Min Grade: C]

NUR 401. Caring For America’s Heroes: An Introduction to the Veteran’s Healthcare Administration System. 3 Hours.
This course is designed to increase the student's understanding of long term and high acuity internal and external environmental variables which affect the health of the unique population of adult patients, veterans, within the Veterans Healthcare Administration (VHA). Knowledge gained in this elective course can be applied to the care of VHA patients in this and subsequent didactic and practicum nursing courses.

NUR 403. Primary Health Care in Low Resource Countries. 3 Hours.
This course is designed for the Advanced Health Care Provider who plans to deliver primary health care in countries considered to be low resource areas as designated by the World Health Organization. These students will study the epidemiology, pathophysiology, diagnosis, and management of infectious and parasitic diseases throughout the global community. In addition, nutritional deficiencies and obstetric problems will be reviewed. Emphasis will be placed on those health problems which are not common in high resource countries. Implementation of the World Health Organization's Integrated Management standards will be included in the study of each disease as they apply to adults, adolescents, and children. Potential personal safety issues for world travelers, and information designed to alleviate these issues will be studied. Each student will focus on a specific country or global area for a more in-depth learning experience. Restrictions Nursing ONLY.

NUR 409. Healthcare and Information Technology. 2 Hours.
The purpose of this course is to integrate concepts of nursing informatics introduced in previous nursing coursework to enhance patient safety and quality outcomes. The focus is on the role of the nurse as caregiver, educator, collaborator, advocate, and consumer of research. The course emphasizes healthcare and information technologies.
Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 410. Evidence-Based Practice in Nursing. 2 Hours.
The purpose of this course is to provide the student with skills to apply evidence to practice. The course focuses on the role of the nurse as consumer of research. The emphasis of the course is on providing the foundation for identifying potential clinical problems, searching the literature for potential evidence-based solutions, and evaluating the quality of the research literature.
Prerequisites: NUR 310 [Min Grade: C] and NUR 311L [Min Grade: C] and NUR 312L [Min Grade: C] and NUR 313L [Min Grade: C] and NUR 314 [Min Grade: C] and NUR 315 [Min Grade: C]

NUR 419. Health Issues in Culturally Diverse Populations in the United States. 3 Hours.
This course provides students with an overview of health issues and health disparities confronting culturally diverse populations in the United States. The course also addresses genetic, cultural, historical and demographic factors that influence these health issues and disparities, implications for culturally effective health care, and for development of health policy.

NUR 426. Concepts of Complex Nursing. 2 Hours.
The purpose of this course is to integrate and apply knowledge from previous courses to the care of patients and their families experiencing complex health conditions. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, leader, and educator. Emphasis is on the nursing care and management of diverse patients and families with complex health conditions.
Prerequisites: NUR 334 [Min Grade: C] and NUR 388 [Min Grade: C] and NUR 389L [Min Grade: P]

NUR 427L. Concepts of Complex Nursing Practicum. 2 Hours.
The purpose of this course is to apply the expanded role of the nurse in providing family centered nursing care for clients and their families experiencing complex health conditions. The course focuses on the role of the nurse as caregiver, manager, collaborator, advocate, leader, and educator. Emphasis is on the nursing care and management of complex health issues for patients across the life-span in a variety of settings.
Prerequisites: NUR 334 [Min Grade: C] and NUR 388 [Min Grade: C] and NUR 389L [Min Grade: P]

NUR 428. Concepts of Community and Public Health Nursing. 2 Hours.
The purpose of this course is to provide a foundation for culturally competent care to populations in a community. The focus is on the roles of educator, caregiver, advocate, coach, collaborator, and consumer of research. Emphasis is on protecting and enhancing the health of local, state, national, and global populations.
Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: P] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 336 [Min Grade: C] and NUR 327L [Min Grade: P]

NUR 429L. Concepts of Community and Public Health Nursing Practicum. 2 Hours.
The purpose of this course is to apply content from previous courses to advance the mission on social justice in health care through community engagement with vulnerable, at-risk individuals and populations. The focus is on the professional roles of caregiver, educator, advocate, health coach, counselor, leader, collaborator, and interprofessional team member. Emphasis is on injury and illness prevention, health promotion, health maintenance, health literacy, and disaster preparedness for population aggregates in local, national, and global communities.
Prerequisites: NUR 321L [Min Grade: C] and NUR 322 [Min Grade: C] and NUR 323L [Min Grade: P] and NUR 324 [Min Grade: C] and NUR 326 [Min Grade: C] and NUR 336 [Min Grade: C] and NUR 327L [Min Grade: P]

NUR 431L. Nursing Skills Development III. 1 Hour.
The purpose of this course is to build on nursing skills attained in NUR 321L to provide safe, quality care. The course focuses on the role of the role of the nurse as caregiver and collaborator. Emphasis is on critical inquiry, clinical reasoning, problem solving and advanced psychomotor and care competencies.
Prerequisites: NUR 334 [Min Grade: C] and NUR 388 [Min Grade: C] and NUR 409 [Min Grade: C] and NUR 389L [Min Grade: P]
NUR 434. Perspectives in Global Health Leadership. 3 Hours.
This course is designed to provide students with an understanding of global aspects of health care leadership. The course will focus on identification of characteristics of global health care leaders, leadership theories, and strategies to develop one's own personal leadership abilities. The course will provide students with a unique opportunity to interact with health care leaders from countries around the world, and develop projects related to an aspect of global health care leadership of interest to each student.

NUR 435. Nursing of the Adult. 4 Hours.
NUR 435 focuses on patients across the adult lifespan who require nursing care in high acuity health care settings. Internal and external environmental variables that have implications for long-term and episodic care are studied in this course. Emphasis is placed on the use of the problem-solving process in health promotion, meeting physiological needs, and providing holistic care during illness and at the end of life. The professional role of the caregiver is further developed in increasingly complex learning experiences.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C]

NUR 436L. Nursing of the Adult Practicum. 3 Hours.
In the practicum component of Nursing of the Adult, students apply content learned in the companion theory course. Competencies needed by the nurse generalist in the care of adult patients are developed in increasingly complex learning experiences. Critical thinking and clinical decision-making skills utilized by the nurse caregiver in a variety of health care settings are emphasized. All Level 1 and Level 2 courses.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C]

NUR 437. Principles of Genetics. 3 Hours.
This elective course provides the foundation to examination, integration, and evaluation of genetic principles to future advances in genetic health and counseling. Opportunity is given to apply ethical principles in decision making related to nursing care of families with genetic health patterns or problems. Must be enrolled in the School of Nursing.

NUR 439. Complementary Therapies and Integrative Health Care. 3 Hours.
The focus of this elective course is on holistic nursing utilizing complementary and alternative therapies and integrative health care as an emerging paradigm in the health care arena. This course will examine both the concepts of integrative health care and major complementary therapies, including theoretical basis and research support, actions, uses, contraindications, and side effects. The socio-cultural, economic, legal and ethical issues associated with complementary therapies will be included as well as standards for practice and available resources. Students will be encouraged to explore ways in which they can counsel patients regarding complementary therapies as well as potential inclusion of the therapies in their own practice.

NUR 442. Health, Education, and Social Welfare in a Global Community. 3 Hours.
The purpose of this course is to provide students with a cross-cultural experience in which they will spend time in a selected global community while learning about health, educational and social welfare issues. Students will participate in pre-trip seminar in Birmingham or on-line prior to travel. The seminar(s) will focus on an overview of the course, a model of assessing culture and an overview of selected global community's culture. Students will also participate in seminars on a variety of health, education and social welfare topics provided by the course instructor and by resource persons from the selected global community.

NUR 444. Principles of Developmental Care Newborn Infants. 3 Hours.
Provides students with an overview of principles of individualized care for newborns and infants. The course also addresses principles of family-centered care as a key component of developmental care. Students review concepts and theories related to molecular biology, fetal, infant and family development, psychology, and sociology in assessing and planning care to promote optimal development of high risk infants and families. Students explore roles of nurses and other interdisciplinary team members in developmental care, are assessed, and develop plans to promote organizational change in order to incorporate developmental care principles in a clinical setting.

Prerequisites: NUR 366L [Min Grade: C] and NUR 370 [Min Grade: C] and NUR 365 [Min Grade: C] and NUR 435. NUR 445. Nursing of the Child and Adolescent. 3 Hours.
Course provides knowledge that is essential for the professional nursing care of children from infancy through adolescence within the context of the family. Students examine the physical, nutritional, developmental, psychological, cognitive, psychosocial, educational, and spiritual needs of children and adolescents adapting to common and complex environmental variables that affect health. Students explore the roles of the professional nurse as caregiver, educator, advocate, and collaborator in providing nursing care to children and adolescents in a variety of settings. Writing competency is an additional focus of this course. Writing is a significant component of this course.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and (NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C])

NUR 446L. Nursing of the Child and Adolescent Practicum. 2 Hours.
NUR 446L provides clinical nursing practice opportunities with children/adolescents within the context of the family in selected hospital and community settings and the nursing simulations laboratory. Students apply knowledge of physical, nutritional, developmental, psychological, cognitive, psychosocial, educational, and spiritual needs of children adapting to common and complex environmental variables that affect health. Students implement the roles of the professional nurse as caregiver, educator, advocate, and collaborator in providing nursing care to children and adolescents in a variety of settings.

Prerequisites: NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C] and NUR 385 [Min Grade: C] and NUR 386L [Min Grade: C] and NUR 370 [Min Grade: C] and (NUR 374 [Min Grade: C] or NUR 484 [Min Grade: C])
NUR 447L. Synthesis and Assimilation Practicum. 4 Hours.
The purpose of this course is the synthesis and assimilation of skills and clinical reasoning drawn from all previous nursing courses and is intended to prepare students to function independently in the management and provision of nursing care to an assigned cohort of patients. The focus of the course is on the professional roles of caregiver, educator, consumer of research, advocate, counselor, leader, and inter- and intra-professional team member. The course emphasizes quality and safety in the provision of nursing care.
Prerequisites: NUR 409 [Min Grade: C] and NUR 410 [Min Grade: C] and NUR 426 [Min Grade: C] and NUR 427L [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: C] and NUR 431L [Min Grade: C]

NUR 448. Transition to Professional Nursing Practice. 2 Hours.
The purpose of this course is to facilitate the transition of the student into the role of a professional nurse. The course focuses on all professional nursing roles. Emphasis is on leadership and management theories and models, resource allocation and management, delegation, legal implications of practice, continuous quality improvement, healthcare systems, and contemporary issues in healthcare.
Prerequisites: NUR 409 [Min Grade: C] and NUR 410 [Min Grade: C] and NUR 426 [Min Grade: C] and NUR 427L [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: C] and NUR 431L [Min Grade: C]

NUR 449. Synthesis Review Course. 1 Hour.
The purpose of this course is to prepare the student to successful complete the NCLEX® examination. The course focuses on all professional nursing roles. Emphasis is on the synthesis of knowledge from all nursing courses as well as the humanities, and the social, behavioral, and natural sciences.
Prerequisites: NUR 409 [Min Grade: C] and NUR 410 [Min Grade: C] and NUR 426 [Min Grade: C] and NUR 427L [Min Grade: C] and NUR 428 [Min Grade: C] and NUR 429L [Min Grade: C] and NUR 431L [Min Grade: C]

NUR 450. Honors Seminar I - Introduction to Nursing Research. 1 Hour.
The purpose of this course is to provide the student with introductory knowledge of nursing research. The course focuses on the role of the nurse researcher with emphasis on providing the fundation for understanding the role of nursing research in nursing practice and in healthcare, conducting ethical research, and searching the literature for an area of research interest.

NUR 451. Honors Seminar II - Exploring Nursing Research. 2 Hours.
This course is designed to prepare students with the knowledge and skills to: (1) locate and examine nursing research relevant to a specific nursing problem; (2) discuss the quality of qualitative and quantitative research evidence; and (3) discuss common nursing research designs and methodologies.
Prerequisites: NUR 450 [Min Grade: C]

NUR 452L. Honors Seminar III - Research Immersion. 3 Hours.
This course provides opportunities for participation in an ongoing research project. Course content includes information about the role of teams in research, the role of the nurse in leading research teams, and guidelines for preparation of manuscripts and presentations. Course activities include discussion research projects and exploration of the student's role as a team member. Professional expectations include dissemination of research experiences with peers and communities of interest.
Prerequisites: NUR 450 [Min Grade: C] and NUR 451 [Min Grade: C]

NUR 455. Leadership and Management in Professional Nursing. 3 Hours.
This course focuses on leadership and management theories and models, resource allocation and management, delegation, conflict resolution, legal implications of practice, managed care, evaluation of practice, continuous quality improvement, healthcare systems, and contemporary issues in the workplace. Emphasis is placed on the integration of all professional role behaviors, application of research, and leadership/management of care as the transition is made from the student role to that of practicing professional nurse.
Prerequisites: NUR 435 [Min Grade: C] and NUR 436L [Min Grade: P] and NUR 445 [Min Grade: C] and NUR 446L [Min Grade: P]

NUR 456L. Leadership and Management in Professional Nursing Practicum. 5 Hours.
NUR 456L - Leadership and Management in Professional Nursing Practicum - 5 Capstone course focuses on direct and indirect clinical performance in the areas of nursing process, leadership and management, evidence-based practice, and the demonstration of professional nursing role behavior as the transition is made from student role to practicing nurse professional. As a capstone course for the BSN program, experiences in this course will also provide the student with opportunities to demonstrate discipline-specific proficiency related to writing, quantitative literacy and ethics/civic responsibility. Prerequisites: All courses in the nursing program, except NUR 395 and NUR 396L which may be taken prior to or concurrently with NUR 456L. Co-requisite: NUR 455.

NUR 457. Leadership and Management in Professional Nursing for RNs. 3 Hours.
This course focuses on leadership and management theories and models, resource allocation and management, delegation, conflict resolution, legal implications of practice, managed care, evaluation of practice, continuous quality improvement, healthcare systems, and contemporary issues in the workplace. Emphasis is placed on the integration of all professional role behaviors, application of research, and leadership/management skills.
Prerequisites: NUR 397 [Min Grade: C](Can be taken Concurrently)

NUR 458L. Leadership Development Practicum for RNs. 2 Hours.
This practicum is designed to enable RN students to build on their existing clinical expertise, broaden their exposure to different specialty areas, and apply theory learned throughout the BSN curriculum to meet the needs of individual clients, client groups, other health care providers, and the public at large. As a capstone course for the RN Mobility Program, specific experiences will provide the student with opportunities to develop leadership/management skills while working with aggregate groups within the community and to demonstrate discipline-specific proficiency related to writing, quantitative literacy, and ethic/civic responsibility.
Prerequisites: NUR 397 [Min Grade: C](Can be taken Concurrently)

NUR 459L. Enhanced Clinical Nursing for the RN. 1-3 Hour.
This elective course is designed to enable RN students to build on their existing clinical expertise, expand their knowledge of current clinical developments, and broaden their exposure to different specialty areas, and apply theory learned throughout the BSN curriculum to meet the needs of individual clients, client groups, other health care providers, and the public at large. As a capstone course for the BSN Mobility Program, specific experiences will provide the student with opportunities to develop leadership/management skills while working with aggregate groups within the community and to demonstrate discipline-specific proficiency related to writing, quantitative literacy, and ethic/civic responsibility.
Prerequisites: NUR 397 [Min Grade: C](Can be taken Concurrently)

NUR 462. Neonatal Behavior Assessment in Clinical Nursing Practice. 2 Hours.
This elective course provides students with the knowledge and skills of neonatal behavioral assessment. Focus is placed upon concepts underlying the Brazelton Neonatal Behavioral Assessment Scale, behavioral characteristics of newborns, and cultural differences and assessment of low and high risk neonates.
NUR 465. Concepts of Management of the High Risk Neonate. 3 Hours.
This course provides theoretical concepts essential to the nursing management of high-risk neonates and families. Students examine the impact of environmental variables on the biophysical, psychological, socio-cultural, spiritual, development, and educational needs of the neonate. The focus of the course is on the concepts of health promotion, maintenance, and restoration of the high-risk neonate and family as they adapt to environmental variables. Students examine legal, historical, political, socio-cultural, ethical, technological, and economic issues related to the care of high-risk neonates and their families. In addition, students analyze current research and the role of the professional nurse in providing care to high risk neonates and families.
Prerequisites: (NUR 365 [Min Grade: C] and NUR 366L [Min Grade: C])

NUR 474. Transition to Professional Nursing Practice. 4 Hours.
Using an online format, this course is designed to enhance the registered nurse's knowledge of the role of the professional nurse in meeting the health needs of society. Historical, legal, political, and ethical issues affecting the profession will be examined. The relationship between selected issues, trends, and theories and professional nursing practice will be analyzed. Students will examine behaviors related to various roles of the professional nurse, including caregiver, teacher, advocate, researcher, consumer, and counselor. Additionally, this course addresses communication skills necessary to a professional nurse including writing and computer literacy. Writing and Ethics and Civic Responsibility are significant components of this course.

NUR 475. Health Assessment Across the Lifespan for RNs. 4 Hours.
The structure of the course allows the student opportunity for directed and self-directed learning experiences. In an online classroom, students are guided in a series of learning activities designed to increase the knowledge and skill of the professional nurse related to health assessment of individuals and family. In addition to physical assessment, students will review other components of a holistic assessment including spiritual, cultural, psychological, and developmental assessment. Admission to the RN Mobility Program is required.

NUR 475L. Health Assessment Across the Lifespan for RNs. 4 Hours.
The structure of the course allows the student opportunity for directed and self-directed learning experiences. In an online classroom, students are guided in a series of learning activities designed to increase the knowledge and skill of the professional nurse related to health assessment of individuals and family. In addition to physical assessment, students will review other components of a holistic assessment including spiritual, cultural, psychological, and developmental assessment. Admission to the RN Mobility Program is required.

NUR 478. Sexuality Issues in Health and Illness: A Lifespan Approach. 3 Hours.
This elective course includes the ethical, social, biological and psychological concepts of human sexuality. Open to non-nursing majors with permission of instructor.

NUR 481. Advanced Spanish for Health Professionals. 3 Hours.
This advanced course emphasizes and expands intensive conversation, technical readings and vocabulary pertinent to the medical field. The course focuses on practical vocabulary, idiomatic expressions, medical terminology and cultural patterns of Spanish-speaking patients.
Prerequisites: NUR 380 [Min Grade: C]

NUR 490. Independent Study in Nursing. 1-6 Hour.
Independent Study in Nursing. Must be a senior year nursing student and have a written Independent Study contract signed by the Associate Dean.

PH 201. College Physics I. 4 Hours.
First term of non-calculus based physics. Linear and planar motion, Newton's laws, work and energy, gravitation, momentum, rigid body motion, elasticity, oscillations, waves, sound, fluids, ideal gases, heat and thermodynamics. Lecture and laboratory. Quantitative Literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 125 [Min Grade: C]

PH 201L. College Physics Laboratory I. 0 Hours.
Laboratory for PH 201. Lecture, laboratory, and recitation must be taken concurrently.

PH 201R. College Physics I Recitation. 0 Hours.
Recitation must be taken concurrently.

PH 202. College Physics II. 4 Hours.
Second term of non-calculus based physics. Electricity and magnetism, optics, and modern physics. Lecture, laboratory, and recitation must be taken concurrently. This course meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: PH 201 [Min Grade: C]

PH 202L. College Physics Laboratory II. 0 Hours.
Laboratory for PH 202. Lecture, laboratory, and recitation must be taken concurrently.

PH 202R. College Physics II Recitation. 0 Hours.
Recitation must be taken concurrently.

PH 211. College Physics I Laboratory. 1 Hour.
College Physics I Laboratory.

PH 212. College Physics II Lab. 1 Hour.
PH 221. General Physics I. 4 Hours.
First term of introductory, calculus-based general physics sequence covering classical mechanics: measurements, kinematics, vectors, translational and rotational dynamics, work, energy, momentum, statics, oscillatory motion, wave motion, and sound. Lecture and laboratory. Quantitative Literacy is a significant component of this course. PH 221 General Physics I – Honors: This section of PH 221 is designed for students with strong interests and preparation in science, mathematics, and/or engineering. Topics are covered with more mathematical rigor and in greater depth than in regular sections. Second term of non-calculus based physics. Electricity and magnetism, optics, and modern physics. Lecture, laboratory, and recitation must be taken concurrently. This course meets the Core Curriculum requirements for Area III: Natural Sciences.
Prerequisites: MA 125 [Min Grade: C]

PH 221L. General Physics Laboratory I. 0 Hours.
Laboratory for PH 221. Lecture, laboratory, and recitation must be taken concurrently.

PH 221R. General Physics I Recitation. 0 Hours.
First term of introductory, calculus-based general physics sequence covering classical mechanics: measurements, kinematics, vectors, translational and rotational dynamics, work, energy, momentum, statics, oscillatory motion, wave motion, and sound. Lecture, laboratory, and recitation must be taken concurrently.

PH 222. General Physics II. 4 Hours.
Second term of introductory, calculus-based general physics sequence covering electricity and magnetism: Coulomb's Law, electric fields, Gauss’ Law, potential, capacitors and dielectrics, Ohm’s Law, DC circuits, magnetic fields, Ampere's Law, Biot-Savart Law, Faraday's Law, inductance, AC circuits, geometrical and physical optics. Lecture, laboratory, and recitation must be taken concurrently. PH 222 General Physics II Honors: This section of PH 222 is designed for students with strong interests and preparation in science, mathematics, and/or engineering. Topics are covered with more mathematical rigor and in greater depth than in regular sections. Second term of non-calculus based physics. Electricity and magnetism, optics, and modern physics. Lecture, laboratory, and recitation must be taken concurrently.

PH 222L. General Physics Laboratory II. 0 Hours.
Laboratory for PH 222. Lecture, Laboratory, and Recitation must be taken concurrently.

PH 222R. General Physics II - Recitation. 0 Hours.
Second term of introductory, calculus-based general physics sequence covering electricity and magnetism: Coulomb's Law, electric fields, Gauss’ Law, potential, capacitors and dielectrics, Ohm’s Law, DC circuits, magnetic fields, Ampere’s Law, Biot-Savart Law, Faraday's Law, inductance, AC circuits, geometrical and physical optics. Lecture, laboratory, and recitation must be taken concurrently.

PH 231. General Physics I Laboratory. 1 Hour.
General Physics I Laboratory.

PH 232. General Physics II Laboratory. 1 Hour.

PH 301. Instructional Astronomy I. 4 Hours.
Survey of selected topics in astronomy of the universe, stellar systems and solar systems with a focus on preparing to teach. Lecture and Laboratory must be taken concurrently.

PH 301L. Instructional Astronomy Laboratory. 0 Hours.
Laboratory for PH 301. Lecture and Laboratory must be taken concurrently.

PH 302. Instructional Physical Science. 4 Hours.
Lecture and discussion in areas of the physical sciences importance to basic scientific literacy and to current technology, with a focus on preparing to teach. Must be taken concurrently with PH 302L.

PH 302L. Instructional Physical Science Laboratory. 0 Hours.
Laboratory for PH 302.

PH 304. Intermediate Mechanics. 3 Hours.
Intermediate treatment of the kinematics and dynamics of classical systems. Presentation of problem solving techniques is emphasized.
Prerequisites: PH 222 [Min Grade: C]

PH 305. Intermediate Electricity and Magnetism. 3 Hours.
Intermediate treatment of electricity and magnetism including fields, potential, induction, Maxwell's equations, circuits. Presentation of problem solving techniques is emphasized.
Prerequisites: PH 222 [Min Grade: C]

PH 331. Classical Thermodynamics. 3 Hours.
Introduction to thermal phenomena on a macroscopic and statistical basic, principles and laws governing them.
Prerequisites: PH 222 [Min Grade: C] and MA 227 [Min Grade: C]

PH 351. Modern Physics I. 4 Hours.
Special relativity, atomic physics, and quantum mechanics. Theoretical and experimental studies to understand observable properties of matter in terms of microscopic constituents. Emphasis on the use of quantitative reasoning to solve modern physics problems. Writing and scientific ethics assignments based on laboratory experiences. Lecture and laboratory. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course.
Prerequisites: PH 222 [Min Grade: C]

PH 351L. Modern Physics I Laboratory. 0 Hours.
Laboratory for PH 351. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course.

PH 352. Modern Physics II. 4 Hours.
Atomic, molecular, and solid-state physics; semiconductors, lasers and nanotechnology; nuclear and particle physics; general relativity and cosmology. Emphasis on the use of quantitative reasoning to solve modern physics problems. Writing and scientific ethics assignments based on laboratory experiences. Lecture and laboratory. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course.
Prerequisites: PH 351 [Min Grade: C]

PH 352L. Modern Physics II Laboratory. 0 Hours.
Laboratory for PH 352. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course.

PH 397. Directed Reading in Physics I. 2-3 Hours.
Tutorial studies in physics offered by special arrangement. Permission of instructor.

PH 398. Directed Reading in Physics II. 2-3 Hours.
Tutorial studies in physics offered by special arrangement. Permission of instructor.

PH 420. Mathematical Methods of Physics I. 3 Hours.
Prerequisites: PH 222 [Min Grade: C] and MA 252 [Min Grade: C] or EGR 265 [Min Grade: C]
PH 421. Mathematical Methods of Physics II. 3 Hours.
Prerequisites: PH 420 [Min Grade: C]

PH 423. Computational Physics. 3 Hours.
Introduces symbolic and numerical computation through examples drawn from classical and modern physics, such as, classical mechanics, electromagnetism, and quantum mechanics. Emphasizes computer-based approaches to visualization, solution of ordinary differential equations, evaluation of integrals, and finding roots, eigenvalues, and eigenvectors.
Prerequisites: MA 252 [Min Grade: C] or EGR 265 [Min Grade: C] and PH 222 [Min Grade: C]

PH 425. Applications of Contemporary Optics I. 3 Hours.
Prerequisites: PH 222 [Min Grade: C]

PH 426. Applications of Contemporary Optics II. 3 Hours.
Prerequisites: PH 425 [Min Grade: C]

PH 427. Geometrical Optics. 4 Hours.
Prerequisites: PH 222 [Min Grade: C]

PH 427L. Geometrical Optics Laboratory. 0 Hours.
Laboratory for PH 427. Lecture and laboratory must be taken concurrently.

PH 428. Physical Optics. 4 Hours.
Prerequisites: PH 222 [Min Grade: C]

PH 428L. Physical Optics Laboratory. 0 Hours.
Laboratory for PH 428. Lecture and laboratory must be taken concurrently.

PH 429. Applications of Contemporary Optics III. 3 Hours.
Optical interactions with materials, including nonlinear optical effects, such as birefringence, electro-optics, photoelasticity, crystal optics, acousto-optics, and phase conjugation. Optical spectroscopies, such as spectroscopic instrumentation, lasers as spectroscopic light sources, fluorescence and Raman laser spectroscopy, and applications of laser spectroscopy in chemistry, environmental research, materials science, biology, and medicine.
Prerequisites: PH 425 [Min Grade: C] and PH 426 [Min Grade: C]

PH 432. Statistical Thermodynamics I. 3 Hours.
Statistical basis of laws of thermodynamics. Ensembles and partition functions. Quantum statistics of ideal gases, including photons and electrons. Applications to solids, real gases, liquids, and magnetic systems. Transport theory.
Prerequisites: PH 351 [Min Grade: C]

PH 433. Statistical Thermodynamics II. 3 Hours.
Statistical basis of laws of thermodynamics. Ensembles and partition functions. Quantum statistics of ideal gases, including photons and electrons. Applications to solids, real gases, liquids, and magnetic systems. Transport theory.
Prerequisites: PH 432 [Min Grade: C] and PH 450 [Min Grade: C]

PH 435. Physics of Biomedical Processes and Technologies. 3 Hours.
Integrated study of the fundamentals and dynamical principles of mechanics, electromagnetism, and select quantum physics topics, with applications to biomechanical systems, biophysical networks, and bioimaging technologies.
Prerequisites: PH 222 [Min Grade: C]

PH 436. Physics of Renewable Energy Systems. 3 Hours.
Integrated study of the fundamentals and dynamical principles of mechanics, electromagnetism, and select quantum physics topics, with applications to electrical power generation from renewable resources such as solar, wind, hydro, and ocean energy.
Prerequisites: PH 222 [Min Grade: C]

PH 445. Electromagnetic Theory I. 3 Hours.
Electromagnetic theory approached from the standpoint of fields and using Maxwell's equations.
Prerequisites: PH 222 [Min Grade: C]

PH 446. Electromagnetic Theory II. 3 Hours.
Electromagnetic theory approached from the standpoint of fields and using Maxwell's equations.
Prerequisites: PH 445 [Min Grade: C]

PH 447. Directed Reading in Electromagnetic Theory. 2-3 Hours.
Tutorial studies in electromagnetic theory offered by special arrangement.

PH 450. Introductory Quantum Mechanics I. 3 Hours.
Principles of quantum mechanics and their application to particle waves, angular momentum, tunneling, radiation, and selection rules. Perturbation and variational methods. Successful completion of PH 352 is recommended prior to registering for this class.
Prerequisites: PH 352 [Min Grade: C] and PH 461 [Min Grade: C]

PH 451. Introductory Quantum Mechanics II. 3 Hours.
Principles of quantum mechanics and their application to particle waves, angular momentum, tunneling, radiation, and selection rules. Perturbation and variational methods. Successful completion of PH 352 is recommended prior to registering for this class.
Prerequisites: PH 450 [Min Grade: C]

PH 452. Directed Reading in Quantum Mechanics. 2-3 Hours.
Tutorial studies in quantum mechanics offered by special arrangement.

PH 453. Introductory Solid State Physics I. 3 Hours.
Properties of crystal lattices, lattice dynamics, lattice imperfections, and bonding energies. Electronic properties of dielectrics, semiconductors, and metals. Ferroelectric, magnetic, and optical properties of solids.
Prerequisites: PH 451 [Min Grade: C]

PH 454. Introductory Solid State Physics II. 3 Hours.
Properties of crystal lattices, lattice dynamics, lattice imperfections, and bonding energies. Electronic properties of dielectrics, semiconductors, and metals.
Prerequisites: PH 453 [Min Grade: C] and PH 451 [Min Grade: C]

PH 455. Molecular Spectroscopy. 3 Hours.
Molecular Spectroscopy.
PH 461. Classical Mechanics I. 3 Hours.  
Kinematics and dynamics, including central forces, rotating coordinate systems, and generalized coordinates. Lagrangian, Hamiltonian, and other equivalent formulations of mechanics.  
**Prerequisites:** PH 222 [Min Grade: C] and (MA 252 [Min Grade: C] or EGR 265 [Min Grade: C])  

PH 462. Classical Mechanics II. 3 Hours.  
Kinematics and dynamics, including central forces, rotating coordinate systems, and generalized coordinates. Lagrangian, Hamiltonian, and other equivalent formulations of mechanics.  
**Prerequisites:** PH 461 [Min Grade: C]

PH 463. Directed Reading in Classical Mechanics. 2-3 Hours.  
Tutorial studies in classical mechanics offered by special arrangement.

PH 465. Applied Mechanics and Electromagnetism I. 3 Hours.  
Integrated study of the fundamentals and dynamical principles of mechanics, electromagnetism, and select quantum physics topics, with applications to biomechanical systems, biophysical networks, and bioimaging technologies.  
**Prerequisites:** PH 222 [Min Grade: C]

PH 466. Applied Mechanics and Electromagnetism II. 3 Hours.  
Integrated study of the fundamentals and dynamical principles of mechanics, electromagnetism, and select quantum physics topics, with applications to electrical power generation from renewable resources such as solar, wind, hydro, and ocean energy.  
**Prerequisites:** PH 465 [Min Grade: C]

PH 467. Special Relativity. 3 Hours.  
Principles and foundations of special relativity with applications to mechanics and electrodynamics.

PH 468. General Relativity. 3 Hours.  
Gravitational phenomena associated with and resulting from linear field equations. Equivalence principle, its implications of non-linear field, and physical consequences.

PH 469. Directed Reading in Physics. 2-3 Hours.  
Tutorial studies in physics offered by special arrangement.

PH 471. Fundamentals of Spectroscopy. 3 Hours.  
Explanation of phenomena related to rotational vibration and electronic spectroscopy of atoms and molecules; operational principles of spectroscopic tools including diffraction grating, waveguides and interferometers, basic group theory concepts and notation.

PH 475. Introduction to Biophysics I. 3 Hours.  
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, and bio-nanotechnology. Emphasis on systems that are best understood in physical and molecular detail. Systems will direct study, with modern physical methods introduced as needed.  
**Prerequisites:** PH 351 [Min Grade: C]

PH 476. Introduction to Biophysics II. 3 Hours.  
Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, and bio-nanotechnology. Emphasis on systems that are best understood in physical and molecular detail. Systems will direct study, with modern physical methods introduced as needed.  
**Prerequisites:** PH 475 [Min Grade: C]

PH 481. Laser Physics I. 3 Hours.  
Physical principles of laser operation and design. Spontaneous and stimulated emission, population inversion, light amplification, laser resonators, Q-switching, mode-locking, pulse shortening techniques, spectral narrowing, and tunable lasers. Individual types of lasers such as gas, solid state, dye, color center, and semiconductor. Practical applications of lasers as well as modern techniques and instrumentation in laser spectroscopy. Lecture and laboratory must be taken concurrently.  
**Prerequisites:** PH 222 [Min Grade: C]

PH 481L. Laser Physics I Laboratory. 0 Hours.  
Laboratory for PH 481. Lecture and laboratory must be taken concurrently.

PH 482. Laser Physics II. 3 Hours.  
Physical principles of laser operation and design. Spontaneous and stimulated emission, population inversion, light amplification, laser resonators, Q-switching, mode-locking, pulse shortening techniques, spectral narrowing, and tunable lasers. Individual types of lasers such as gas, solid state, dye, color center, and semiconductor. Practical applications of lasers as well as modern techniques and instrumentation in laser spectroscopy. Lecture and laboratory must be taken concurrently.  
**Prerequisites:** PH 481 [Min Grade: C]

PH 482L. Laser Physics II Laboratory. 0 Hours.  
Laboratory for PH 482. Lecture and laboratory must be taken concurrently.

PH 485. Laser Spectroscopy. 3 Hours.  
Fundamental principles, experimental techniques, instrumentation, and practical applications of laser spectroscopy.

PH 486. Semiconductor Materials in Modern Technology. 3 Hours.  
Brief review of electronic materials with emphasis on traditional and cutting edge silicon technology. Competing and complementary semiconductors covered in standard lecture and seminar style. Materials: compound and tertiary semiconductors, organic semiconductors, and wide bandgap semiconductors. Applications: optical and chemical sensors, microwave electronics, high power electronics, and lasers. Specific applications and materials determined by student interests.  
**Prerequisites:** PH 352 [Min Grade: C] or EE 351 [Min Grade: C] or CH 326 [Min Grade: C]

PH 487. Nanoscale Science and Applications. 3 Hours.  
Physics of electronic, mechanical, and biological properties of materials at the nanoscale level approaching one billionth of a meter. The applications of nanoscale materials in electronic, mechanical, and biomedical systems will be emphasized. Special tools in synthesis and characterization of nanomaterials will be discussed.  
**Prerequisites:** (PH 221 [Min Grade: C] and PH 222 [Min Grade: C]) or (CH 115 [Min Grade: C] and CH 117 [Min Grade: C])

PH 490. Preparations for Teaching. 1-4 Hour.  
This class prepares physics majors for successful teaching experiences. The course emphasizes a foundation of practical knowledge related to expectations and duties shared by teachers in physics education, as well as an opportunity to read, reflect, and discuss current research related to physics teaching and learning in secondary and higher education.  
**Prerequisites:** PH 352 [Min Grade: C]

PH 491. Advanced Physics Laboratory I. 1-4 Hour.  
This course provides physics majors with the opportunity to integrate the physics knowledge acquired in earlier courses in a research environment under the supervision of an approved UAB faculty mentor.  
**Prerequisites:** PH 352 [Min Grade: C]
PH 492. Advanced Physics Laboratory II. 1-4 Hour.
This course provides physics majors with the opportunity to integrate the physics knowledge acquired in earlier courses in a research environment under the supervision of an approved UAB faculty mentor.
Prerequisites: PH 491 [Min Grade: C]

PH 493. Advanced Physics Laboratory III. 1-4 Hour.
This course provides physics majors with the opportunity to integrate the physics knowledge acquired in earlier courses in a research environment under the supervision of an approved UAB faculty mentor.
Prerequisites: PH 492 [Min Grade: C]

PH 494. Research Methods in Physics. 3 Hours.
This course is designed to provide future physics teachers with the tools that physicists use to solve scientific problems; to give them the opportunity to use these tools in a physics laboratory setting; to make them aware of how scientists communicate with each other through peer-reviewed scientific literature; and to enable them to understand how scientists in general and physicists in particular develop new knowledge and insights, the most important of which are eventually presented in textbooks and taught in conventional science classes.
Prerequisites: EHS 126 [Min Grade: D]

PH 495. Honors Research. 3 Hours.
Research in an area of active research, under the direction of a faculty sponsor and the Honors Committee. May be repeated.
Prerequisites: PH 352 [Min Grade: C]

PH 497. Special Topics in Physics. 1-6 Hour.
Topics of current interest, such as theoretical physics, computational physics, experimental techniques. May be repeated for credit.

PH 498. Directed Research. 1-6 Hour.
Directed Research.

PH 499. Physics Capstone. 3 Hours.
Instructional sessions, conclusion of research or teaching project and career planning activities aimed at the integration of physics knowledge and competencies in scientific writing, quantitative literacy, and ethics and civic responsibility.
Prerequisites: PH 490 [Min Grade: C] or PH 491 [Min Grade: C] or PH 495 [Min Grade: C]

PHL-Philosophy Courses

Courses

PHL 100. Introduction to Philosophy. 3 Hours.
Introductory survey of philosophy, its nature, methods and problems. Topics typically include, among others, existence of God, freedom, knowledge, right and wrong. Classical and/or contemporary readings. This course meets the Core Curriculum requirements for Area II: Humanities.

PHL 115. Contemporary Moral Issues. 3 Hours.
Survey of contemporary moral problems and dilemmas; introduction to methods and concepts of moral philosophy. Topics may include abortion, euthanasia, capital punishment, economic justice, homosexuality, animal rights, and respect for nature. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area II: Humanities.

PHL 116. Bioethics. 3 Hours.
Moral problems and dilemmas in medicine and health professions; elementary methods and concepts of moral philosophy. Problems typically include, among others, AIDS and human and animal experimentation. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area II: Humanities.

PHL 120. Practical Reasoning. 3 Hours.
Survey of skills in critical thinking and scientific reasoning, including the ability to identify different kinds of arguments, recognize common fallacies of reasoning, and evaluate analogical, causal, and statistical arguments. Quantitative Literacy is a significant component of this course. This course meets the Core Curriculum requirements for Area II: Humanities.

PHL 125. Introduction to Ethics. 3 Hours.
Elements of moral philosophy. Moral objectivity; connections among morality, rationality, and religion; nature and significance of moral value. This course meets the Core Curriculum requirements for Area II: Humanities.

PHL 135. The Rule of Law. 3 Hours.
Law and legal institutions and processes, with emphasis on civil law. Development of legal ideas in such areas as torts, contracts, and property law. Role and history of legal institutions within political framework. Covers many topics addressed in the first year of law school. Relations between courts and legislatures. Ethics and Civic Responsibility are significant components of this course.

PHL 203. Philosophy of Religion. 3 Hours.
Religion; its nature, justification, and significance. God, evil, religious experience, faith, and reason. This course meets the Core Curriculum requirements for Area II: Humanities.

PHL 204. Philosophy and Christianity. 3 Hours.
What Christians believe and why they believe it; foundations of Christian philosophical thought. Christian concepts of God, Christ, salvation, atonement, faith, and ethics.

PHL 205. Existentialism. 3 Hours.
What Existentialists believe and why they believe it; foundations of Existentialist philosophical thought. Existentialist concepts of freedom, commitment, anxiety, and authenticity.

PHL 215. History of Moral Philosophy. 3 Hours.
Socrates to present, focusing on historical development of moral tradition that has shaped Western society. Plato, Aristotle, Aquinas, Hobbes, Hume, Kant, Mill, Nietzsche, and others.

PHL 216. Intermediate Bioethics. 3 Hours.
An in-depth examination of selected issues in Bioethics. Usually 3-4 topics will be selected from the general areas of Death and Dying, Ethical Issues at the Beginning of Human Life, Research Ethics, Justice and Medical Finance, Genetics, and the Doctor-Patient Relationship.
Prerequisites: PHL 116 [Min Grade: C]

PHL 220. Introduction to Symbolic Logic. 3 Hours.
Modern theory of deductive inference. Emphasis on recognizing valid forms of reasoning. Truth-function theory and some beginning concepts of quantification theory. Quantitative Literacy is a significant component of this course.

PHL 230. Social and Political Philosophy. 3 Hours.
Survey of contemporary debates concerning fundamental principles of political life. Topics typically include justification of political authority, the proper role of government in society, economic justice, freedom and rights, and the free enterprise system. Ethics and Civic Responsibility are significant components of this course.
PHL 232. Classical Political Thought. 3 Hours.
Development of western political thought from Plato to Augustine; Theories of major political thinkers.

PHL 233. Modern Political Theory. 3 Hours.
Development of Western political thought from the early modern era to contemporary debates in works of Machiavelli to Mill. Theories of major political thinkers.

PHL 239. Classical Thought of India China and the West. 3 Hours.
Conceptions of self, society, and natural world.

PHL 240. History of Philosophy: Socrates Plato and Aristotle. 3 Hours.
Origins and development of Western philosophic tradition, with emphasis on writings of Plato and Aristotle. Concepts of knowledge, reality, and the good life.

PHL 270. Science, Knowledge, and Reality. 3 Hours.
Science; its nature, scope, and significance. Scientific reasoning; science as social institution; ethical issues in science.

PHL 290. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 291. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 292. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 293. Topics in Philosophy. 3 Hours.
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 299. Teaching Practicum. 3 Hours.
Teaching experience in philosophy courses, supervised by a faculty member. Student must have previously taken the course for which the student will work within. Permission of Director of Undergraduate Studies required. Pass/Fail.

PHL 311. Philosophy of Science. 3 Hours.
Philosophical issues concerning the nature of science. Topics may include philosophical debates about scientific evidence; scientific explanation; empiricism, instrumentalism, and realism; the problems of induction; the demarcation problem; theories and models; laws and mechanisms; reduction; causation and explanation; observables vs. unobservables; ethical issues in science; and the social structure and impact of science.

PHL 312. Philosophy of Biology. 3 Hours.
This course surveys issues in contemporary philosophy of biology and some closely related issues. Much of the focus will be on philosophical issues concerning evolutionary biology, but issues in developmental biology, molecular biology, and immunology will also be considered. No background in biology is required. Philosophical issues involving evolution and ethics, nature vs. nurture, evolution and psychology, biological mechanisms and models, species and human nature, evolution and intelligent design, and natural selection and chance will be discussed.

PHL 314. Philosophy and Feminism. 3 Hours.
Feminism; conceptual foundations, scope, and applications. Problems typically include, among others, feminist concepts of gender, reasoning, knowledge, and ethics. Prerequisite: One previous PHL course or permission of instructor.

PHL 315. Ethics: Theories of Good and Evil. 3 Hours.
Morality; its nature, principles, and scope. Normative and critical problems in moral philosophy; moral obligation. One previous PHL course or permission of instructor required.

PHL 335. Philosophy of Law. 3 Hours.
Theories of the nature of law (natural law, realism, positivism, critical legal theory); interpretation of precedents, statutes, and Constitution; Constitutional protections such as freedom of speech and religion and the right of privacy; selected issues in criminal and civil law. Ethics and Civic responsibility are significant components of this course.

PHL 341. History of Philosophy: Descartes to Hume. 3 Hours.
Philosophy in modern era, focusing on continental rationalism and British empiricism; emphasis on theories of knowledge and reality; science, religion, and modernism. One previous PHL course or permission of instructor required. Writing is a significant component of this course.

PHL 342. History of Philosophy: Kant and 19th Century. 3 Hours.
Western philosophic tradition from Kant through end of nineteenth century. Kant, Hegel, Marx, Kierkegaard, and Mill, among others.
Prerequisites: PHL 100 [Min Grade: C] or PHL 115 [Min Grade: C] or PHL 116 [Min Grade: C] or PHL 215 [Min Grade: C]

PHL 343. History of Philosophy: Twentieth Century. 3 Hours.

PHL 348. American Philosophy. 3 Hours.
Major philosophers of classical American period; Pierce, James, and Dewey. Origins and nature of American pragmatism. One previous PHL course or permission of instructor required.

PHL 350. Philosophy of Language. 3 Hours.
Language; its nature, structure, and uses. Reference, meaning, communication, and interpretation; Russell, Wittgenstein, Chomsky, and Quine, among others. One previous PHL course or permission of instructor required.

PHL 372. Minds and Machines. 3 Hours.
Artificial intelligence; its philosophical foundations and implications. Topics may include mind-body problem, nature of intelligence, machine models of mind, computational processes, and mental representation. One previous PHL course or permission of instructor required.

PHL 375. Philosophy of Mind. 3 Hours.
Mind; its nature, forms, and functions. Concepts of mind/body, consciousness, rationality, and personal identity; free will. One previous PHL course or permission of instructor required. Writing is a significant component of this course.

PHL 390. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 391. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. One previous PHL course or permission of instructor required.
PHL 392. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher. One previous PHL course or permission of instructor required.

PHL 393. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 394. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 395. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 396. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 397. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 398. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 399. Topics in Philosophy. 3 Hours.
This course is a seminar whose content may be different each time it is taught. It provides instructors with the opportunity to deal with topics that may not be considered in any other course or which may be treated in another course but only at an introductory level. Topics may include: special topics in some area of philosophy, interdisciplinary issues, and important work or works by a great philosopher.

PHL 402. Neuroethics. 3 Hours.
Ethical issues related to neuroscience and other sciences of the mind. Topics typically include: privacy and side effects of brain technologies; neuroscientific threats to free will; moral responsibility and mental illness; emotion and reason in moral judgment; cognitive enhancement and personality change; ethically sound research practices. A previous course in Philosophy is recommended. Ethics and Civic Responsibility are significant components of this course.

PHL 405. Epistemology: Theories of Knowledge. 3 Hours.
Human knowledge; its nature, sources, and limits. Concepts of truth, objectivity, evidence, and belief. Two previous PHL courses or permission of instructor required. Writing is a significant component of this course.

PHL 408. Metaphysics. 3 Hours.
Reality; its basic elements, principles of existence and identity, and appearance and reality. Concepts of cause, matter, mind, realism, and anti-realism. Two previous PHL courses or permission of instructor required.

PHL 435. Philosophy of Law. 3 Hours.
Theories of the nature of law (natural law, realism, positivism, critical legal theory); interpretation of precedents, statutes, and Constitution; Constitutional protections such as freedom of speech and religion and the right of privacy; selected issues of criminal and civil law. Requires additional work not required in PHL 335. Ethics and Civic Responsibility are significant components of this course.

PHL 441. History of Philosophy: Descartes to Hume. 3 Hours.
Philosophy in modern era, focusing on continental rationalism and British empiricism; emphasis on theories of knowledge and reality; science, religion, and modernism. Writing is a significant component of this course.

PHL 442. Hist of PHL:Kant and 19th Cent. 3 Hours.
Western philosophic tradition from Kant through end of nineteenth century. Kant, Hegel, Marx, Kierkegaard, and Mill, among others. One previous PHL course or permission of instructor required.
Prerequisites: PHL 100 [Min Grade: D] or PHL 115 [Min Grade: D] or PHL 116 [Min Grade: D] or PHL 215 [Min Grade: D]

PHL 443. History of Philosophy: Twentieth Century. 3 Hours.
Major movements and problems of twentieth century philosophy. Moore, Russell, Wittgenstein, and Quine, among others. Two previous PHL courses or permission of instructor required.

PHL 470. Philosophical Problems in the Natural and Social Sciences. 3 Hours.
Nature and uses of science. Concepts of explanation, confirmation, scientific law, and theory; special problems in sciences. Two previous PHL courses or permission of instructor required.

PHL 490. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey using previous course work in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution. Course fulfills capstone requirement for Seniors.

PHL 491. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey using previous course work in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution. This course fulfills the capstone requirement for seniors.
PHL 492. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey using previous course work in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution. This course fulfills the capstone requirement for seniors.

PHL 493. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution.

PHL 494. Philosophy Seminar. 3 Hours.
In-depth survey of either a topic or individual author of current interest. A systematic survey in the main areas of philosophy to produce a substantial paper. Emphasis on detailed analysis of the structure of arguments and standards for empirical evidence where relevant. Proper standards for citation and attribution.

PHL 499. Directed Studies. 1-3 Hour.
Special arrangement opportunity for in-depth study. Permission of Instructor Only.

PHS-Physical Sciences Courses

Courses

PHS 101. Physical Science. 4 Hours.
Scientific method and hands-on experience with integrated laboratory, discussion, and lecture. Emphasis on the use of quantitative reasoning to solve physical problems. Writing, assignments based on research and laboratory experiences that include collection and interpretation of experimental data. For non-science majors. Lecture and laboratory. Writing and Quantitative Literacy are significant components of this course. This course meets the Core Curriculum requirements for Area III: Natural Sciences.

PHS 101L. Physical Science Laboratory. 0 Hours.
Must be taken concurrently with PHS 101 lecture.

PHS 102L. Physical Science Lab. 0 Hours.
Physical Science Laboratory.

PHS 110. Overview of Space Exploration. 3 Hours.
Descriptive approach to comparative planetology for non-science majors. Analysis of recent, ongoing, and planned space missions with regard to scientific objectives and experiment design.

PHS 141. Musical Acoustics. 3 Hours.
Scientific method and hands-on experience with integrated laboratory, discussion, and lecture, emphasizing physical principles and experiences important for understanding musical tones. For non-science majors. See MU 141. Prerequisite for this class includes completion of Core Curriculum mathematics requirement.

PHS 150. Science Writing. 3 Hours.
Scientific writing skills for science, mathematics, and engineering. Identification of audience and purpose, generation of ideas, organization of information and construction of arguments.

PHS 211. Discussion on the Nature of Matter. 3 Hours.
Honors seminar. Evolution of science and scientific method from early Greek origins in context of the study of matter. Non-mathematical, descriptive, and pictorial approach to understanding basic structure of matter and materials of technological interest. See HON 211. Scientific writing skills for science, mathematics, and engineering. Permission of instructor or admission to Honors Program.

PSC-Political Science Courses

Courses

PSC 100. Public Service. 3 Hours.
This course provides an introduction to public service values and career paths in political science and public policy. Students will learn of various career paths relevant to political science and international studies in public management and nonprofit organizations. A component of the course focuses on career preparation, resume building, professional networking, and interview strategies.

PSC 101. Introduction to American Government. 3 Hours.
This course will cover basic information about American government and how it works. It is designed to give you a broad familiarity with a variety of institutions and process in American government. Each section provides you with an introduction to that area of the political process and should provide a foundation for future study of the topic. Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

PSC 102. Introduction to Comparative Politics. 3 Hours.
Compares the political cultures and institutions of various political systems around the world. Special emphasis upon the Communist and post-Communist states, religiously-based states, and countries in transition to democracy. (CP) This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

PSC 103. Introduction to International Relations. 3 Hours.
The introductory course in international relations is designed to be a survey of the problems and practice of global cooperation and conflict. Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

PSC 104. Introduction to Political Theory. 3 Hours.
This course surveys the intellectual origins and historical development of political theory from the ancient Athenian experiment in direct democracy to the contemporary American challenge of diversity in a representative government. We explore citizenship as a philosophical conversation about rights and duties, equality and liberty, and the ethical responsibility of the individual to the community.

PSC 110. Introduction to American Public Policy. 3 Hours.
Policy process at local, state, and federal levels of government. Problem identification and definition; policy formulation and enactment; implementation and evaluation; policy termination. (AG/PT).

PSC 120. Urban Politics. 3 Hours.
Structures of urban governments, focusing on intergovernmental relations, official decision makers, and group and electoral politics in metropolitan environments. (AG/PT).

PSC 170. Contemporary Political Issues. 1-3 Hour.
Selected topics of current political importance and interest. Interests identified in current schedule of classes. May be repeated with permission of department chair.
PSC 221. American State and Local Government. 3 Hours.
Institutions, functions, and political processes at state and local levels of American government. (AG/PT) This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

PSC 222. Introduction to Public Administration. 3 Hours.
Principles and practices of governmental administration, including organization, procedures, personnel management, budgeting, and control. (AG/PT).

PSC 240. Social and Political Philosophy. 3 Hours.
Contemporary debate concerning fundamental principles of political life. Justification of political authority, proper role of government in society, economic justice, freedom and rights, and free enterprise system. (AG/PT).

PSC 260. American Foreign Policy. 3 Hours.
Creation and conduct of U.S. foreign policy. Evolution of American role in world affairs; problems, trends, and developments since World War II. (CP/IR).

PSC 261. Law and Society. 3 Hours.
This course takes a multidisciplinary approach to the study of law and examines how societal and cultural factors shape the law as well as how law affects society by looking at whether law can act as a form of social control, whether courts can bring about social change, and whether law creates societal inequality. These questions are answered in the context of current social and moral issues. (AG/PT).

PSC 265. Special Topics in Comparative Politics. 3 Hours.
Selected topics in Comparative Politics.

PSC 266. The United Nations. 3 Hours.
Organization framework, evolving experiences and continuing problems of United Nations system for maintenance of international peace and security and for international economic and social cooperation. (IR/CP).

PSC 270. Law and Film. 3 Hours.
This course focuses on the portrayal of courts, cases, lawyers, and law in major motion pictures. The course examines the extent to which films that focus on law are affected by the legal, political, and pop culture at the time of their production as well as the extent to which films shape society’s perceptions, whether correctly or incorrectly, of law and the legal profession. (AG/PT).

PSC 271. Contemporary Political Issues. 3 Hours.
Issues of current interest in political science.

PSC 272. Model Arab League. 1 Hour.
Preparation for participation in Model Arab League simulations around the country. Individual research on the Arab League and cooperative efforts to represent an assigned country and its foreign policy on committees, such as political affairs, economics, social affairs, and others.

PSC 275. Special Topics in Political Theory. 3 Hours.
Special Topics in Political Theory: selected topics in Political Theory.

PSC 285. Special Topics in International Relations. 3 Hours.
Selected topics in International Relations.

PSC 295. Special Topics in Political Science. 3 Hours.
Selected topics in Political Science.

PSC 316. Human Rights. 3 Hours.
This course will focus on the intellectual traditions and transformational politics of global movements toward extending human rights across countries and cultures. United Nations efforts to promote the Universal Declaration of Human Rights will be examined in a comparative political and legal context.

PSC 317. Religion and Politics. 3 Hours.
This course investigates the relationship between religion and the American political community. Topics examined will include: the influence of religion on Early Settlement thought; the role of religion in shaping the 1st Amendment; the political evolution of Christian, Jewish and Islamic sects in the US; the court and the issue of “church and state”; religion and political activism; faith-based organizations and the implementation of public policy. (AG/PT).

PSC 318. Politics and Race in America. 3 Hours.
Black politics in the United States at the national, state, and local levels of government. Introduces students to the nature of black political behavior. Topics examined will include black political philosophy, blacks and the Supreme Court, congress and the president, black leadership, black organizations, black electoral behavior, black public opinion, and public policy. This course is taught with an emphasis on Blacks who are descendants of slaves. (AG/PT).

Prerequisites: PSC 101 [Min Grade: D]

PSC 319. Civil Liberties and Civil Rights. 3 Hours.
This course examines the role of the Supreme Court in defining the fundamental rights and liberties of citizens in the United States. We analyze the inherent tension in supporting individual rights when they conflict with the will of the democratic majority.

PSC 320. Political Participation. 3 Hours.
This course focuses on individual level public opinion, voting behavior, and all forms of participation in American national politics. It explores the causes and consequences of individual participation in campaigns and elections, parties and interest groups. Ethics and Civic Responsibility are significant components of this course. (AG/PT).

Prerequisites: PSC 101 [Min Grade: D]

PSC 321. Public Opinion in American Politics. 3 Hours.
Public opinion and the factors that shape it including the media, socialization, and group are covered in this course. It also includes a focus on its influence in elections and policy and the measurement of public opinion. (AG/PT).

PSC 322. Women and Politics. 3 Hours.
This course analyzes the history, theory and public policy of women as U.S. citizens from the colonial era through suffrage toward a woman in the White House. We examine the struggle for political rights, educational opportunity and economic equality, and gender roles in the family. We evaluate poll date, public policy debates, electoral strategies and leadership styles for women candidates for local, state. and federal office. (AG/PT).

PSC 330. The American Judicial Process. 3 Hours.
This course examines the purpose and structure of American courts; the selection of judges; the role of juries; how federal courts set agendas, decide cases, and impact legal policy; the role of interest groups and public opinion on judicial behavior. This course is writing-intensive; students will produce a central research project that asks and answers an empirical question about the judicial system, broadly described. Writing is a significant component of this course. (AG/PT).

Prerequisites: PSC 101 [Min Grade: D]

PSC 331. The U.S. Congress. 3 Hours.
This course in an in-depth analysis of the U.S. Congress and the policy process in Congress. The roles of the president, the court, interest groups, and political parties in the legislative process are also addressed. (AG/PT).

Prerequisites: PSC 101 [Min Grade: D]
PSC 332. The American Presidency. 3 Hours.
Presidential leadership and democratic order; legal foundations of presidential authority; popular influences and presidential politics; democracy and presidential leadership today. (AG/PT).
Prerequisites: PSC 101 [Min Grade: D]

PSC 333. Political Parties and Interest Groups. 3 Hours.
This course covers engagement and governing in American politics through the institutions of participation - political parties and interest groups. Topics include parties and political organizations in their varied forms - trade associations, membership groups, social movements and others, and the role of these organizations shaping outcomes. (AG/PT).
Prerequisites: PSC 101 [Min Grade: D]

PSC 340. American Political Thought. 3 Hours.
This course focuses on the origins and evolution of American political theory from the colonial period to post-modernity. Investigates the philosophical legacy of the American founding and the civic republican tradition on contemporary theories of liberty, equality, and civic engagement in public life. Ethics and Civic Responsibility are significant components of this course. (AG/PT).
Prerequisites: PSC 104 [Min Grade: D]

PSC 341. Classical Political Thought. 3 Hours.
This course analyzes the development of Western political thought in classical period from Plato to Augustine. We trace the emergence of democratic government and the political culture of the polis as represented by the philosophers and playwrights of the ancient world from Athens to Rome, (AG/PT).
Prerequisites: PSC 104 [Min Grade: D]

PSC 342. Modern Political Theory. 3 Hours.
This course surveys the development of Western political thought from early modern era to contemporary debates from Machiavelli to King. We examine the innovation of social contract theories and the revolution in origins of modern democracies as we analyze philosophical arguments for individual consent, political authority, personal liberty, and legitimate government. (AP/PT).

PSC 343. Digital Democracy. 3 Hours.
The advent of the internet and digital media has fundamentally transformed the way humans connect, communicate, and share information. This class will look at the democratization of information as a result of the “information revolution” - i.e the internet and digital medium as a game changer in communications, politics, health, education, citizenship, and many other sectors. Additional topics will include net neutrality, protection of consumer rights, and a touch of behavioral economics in digital commerce.
Prerequisites: PSC 104 [Min Grade: D]

PSC 350. African Politics. 3 Hours.
Following the African tradition of communication of political philosophies through narrative, our study of African politics will incorporate storytelling (in film, fiction, and poetry) as well as more standard methods of political analysis. The course addresses social, economic, and political dimensions of Africa - Northern, Southern, and Sub-Saharan - from pre-colonial era to the present. We will also examine Africa’s regional and international relations today. (CP/IR).

PSC 351. European Political Systems. 3 Hours.
Comparative analysis of politics in European nations. (CP/IR).

PSC 352. Latin/South American Political Systems. 3 Hours.
Comparative analysis of politics in Latin and South American Societies. (CP/IR).

PSC 353. Asian Political Systems. 3 Hours.
This course provides an overview of the relationships between state and society in contemporary Asia, with particular emphasis on India, Pakistan, China and Japan. Also included are a presentation of Pan-Asian relations, environmental problems, current armed conflicts and political culture. (CP/IR).

PSC 354. East European Politics. 3 Hours.
Analysis of East European domestic and foreign policies and politics. (CP).

PSC 355. Politics of Development. 3 Hours.
Analysis of social, economic and political problems confronting the world’s poor countries. Topics examined include national responses to the following problems: child soldiers and child labor; government corruption and transparency; ethnic conflict; environment destruction; social inequality; globalization; and cultural preservation. (CP/IR).
Prerequisites: PSC 102 [Min Grade: D]

PSC 356. Riots Resistance Rebellion. 3 Hours.
This course is an introduction to sub-state political violence. We will focus particularly closely on post-WWII resistance and revolt in North Africa.

PSC 357. Human Trafficking. 3 Hours.
The goal of this course is to address issues regarding modern slavery and human trafficking. Specifically, we will investigate the types of slavery, such as bonded labor and forced prostitution, the political, legal, economic and social dimensions of global slavery and human trafficking, and ways in which a broad variety of international and nongovernmental organizations respond to this crisis.

PSC 360. International Security. 3 Hours.
Analysis of arms race, process of arms control negotiations, and diffusion of nuclear weapons. (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 361. North/South International Relations. 3 Hours.
Relations between advanced industrial countries and underdeveloped countries, focusing on changing dynamics of these relations. (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 362. Diplomacy. 3 Hours.
Origins, institutions, functions and rules of modern diplomatic and consular practice and roles of diplomacy as instrument of national policy. (IR/CP).
Prerequisites: PSC 101 [Min Grade: D]

PSC 363. Nationalism in World Politics. 3 Hours.
The primary objectives of this course is to examine the political basis and implications of nationalism, as an idea and a political movement, in world politics. (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 365. Special Topics in Comparative Politics. 3 Hours.
Selected topics in Comparative Politics.

PSC 370. Politics and the Media. 3 Hours.
This course covers how significant changes in communications media have affected our ability to address our political problems and make public policy. It covers the interactive relationship between real world politics and communications media, where and how we learn about candidates, elected and appointed officials, and policy issues.
Prerequisites: PSC 101 [Min Grade: D]

PSC 371. Political Propaganda in Film. 3 Hours.
Analyzing and writing in depth about the ethics and rationale for using and abusing the film medium to relate to, undermine, or support political authority.
PSC 375. Special Topics in Political Theory. 3 Hours.
Special Topics in Political Theory: selected topics in Political Theory.

PSC 380. The Politics of Constitutional Law. 3 Hours.
Decisions of the U.S. Supreme Court as related to the development of important doctrines of constitutional law. Role of judiciary; extent of federal executive and legislative power; federal taxing and commerce powers. (AG/PT).
Prerequisites: PSC 101 [Min Grade: C]

PSC 381. The Bill of Rights. 3 Hours.
Decisions of the U.S. Supreme Court as related to the development of important doctrines of constitutional law. Guarantees of Bill of Rights regarding both national and state governments; 14th Amendment. (AG/PT).
Prerequisites: PSC 101 [Min Grade: C]

PSC 382. Political Networks. 3 Hours.
The course explores the impact of social networks on political attitudes, political behavior, and policy outcomes in domestic and international politics.

PSC 385. Special Topics in International Relations. 3 Hours.
Selected topics in International Relations.

PSC 386. Special Topics in American Government. 3 Hours.
Special topics in American Government.

PSC 400. Research in Political Science. 3 Hours.
This course covers strategies to develop and answer research questions in Political Science, with emphasis on research design, data generation techniques, and on descriptive and inferential statistical analysis. The course fulfills requirements in Quantitative Literacy and Writing.

PSC 401. Seminar in American Government. 3 Hours.
There are multiple theoretical approaches employed in the study of American political culture, behavior, institutions, and policy making. This course covers those approaches and the significant literature on the central topics in American government and politics (AG/PT).
Prerequisites: PSC 101 [Min Grade: D]

PSC 402. Seminar in Comparative Politics. 3 Hours.
Multiple theoretical approaches employed in study of international relations and their usefulness in cross-national analysis of political systems. (CP/IR).
Prerequisites: PSC 102 [Min Grade: D]

PSC 403. Seminar in International Relations. 3 Hours.
The course covers multiple theoretical approaches employed in study of International Relations and their usefulness in investigating issues in world politics. Quantitative Literacy is a significant component of this course.
Prerequisites: PSC 103 [Min Grade: D]

PSC 404. Seminar in Political Theory. 3 Hours.
Multiple approaches employed in study of political theory and their usefulness in forming normative judgements. (PT/AG).
Prerequisites: PSC 104 [Min Grade: D]

PSC 418. Politics and Race in America. 3 Hours.
This course gives students a pragmatic understanding of the Black-American political experience in the United States to facilitate a deeper understanding of the status of Blacks in the American system. The goal of the course is to introduce students to the development and character of Black-American political and social discourse and the role that political and social ideas play in the lives of Black-Americans. The design of the course is to help and encourage students to read, think, discuss, and write intelligently, analytically, and critically about Black-American social and political discourse, in particular, and the larger American social and political dynamic, in general.

PSC 422. Women in Politics. 3 Hours.
This course analyzes the history, theory and public policy of women as U.S. citizens from the colonial era through suffrage toward a woman in the White House. We examine the struggle for political rights, educational opportunity and economic equality, and gender roles in the family. Students will design and research a paper on the impact of women elected and appointed leaders on law and public policy. (AG/PT).

PSC 443. Digital Democracy. 3 Hours.
The advent of the internet and digital media has fundamentally transformed the way humans connect, communicate, and share information. This class will look at the democratization of information as a result of the “information revolution” - i.e the internet and digital medium as a game changer in communications, politics, health, education, citizenship, and many other sectors. Additional topics will include net neutrality, protection of consumer rights, and a touch of behavioral economics in digital commerce.

PSC 455. Political Networks. 3 Hours.
The course explores the impact of social networks on political attitudes, political behavior, and policy outcomes in domestic and international politics.

PSC 456. Riots Resistance Rebellion. 3 Hours.
This course is an introduction to sub-state political violence. We will focus particularly closely on post-WWII resistance and revolt in North Africa.

PSC 457. Human Trafficking. 3 Hours.
The goal of this course is to address issues of modern slavery and human trafficking. Specifically, we will investigate the types of slavery, such as bonded labor and forced prostitution, the political, legal, economic and social dimensions of global slavery and human trafficking, and ways in which a broad variety of international and nongovernmental organizations respond to this crisis.

PSC 461. International Political Economy. 3 Hours.
Increasing interaction of politics and economics in international and transnational arenas of current global system. Quantitative Literacy is a significant component of this course. (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 465. International Law. 3 Hours.
Historical roots, theoretical foundations, and substantive development of law governing relations among nations; functioning of present international legal system. (IR/CP).
Prerequisites: PSC 103 [Min Grade: D]

PSC 466. The United Nations. 3 Hours.
Organizational framework, evolving experiences and continuing problems of United Nations system for maintenance of international peace and security and for international economic and social cooperation. (IR/CP).

PSC 471. Political Propaganda in Film. 3 Hours.
This course analyzes the ethics and rationale for using and abusing the film medium to relate to, undermine, or support political authority. The class employs a critical analysis of the explicit or implicit forms of political propaganda messages transmitted to popular culture in order to manipulate policy and public opinion. The films are drawn from four nations: United States, United Kingdom, Germany, and Russia.
PUH 250. Biostatistics. 3 Hours.
Students will gain a thorough understanding of basic analysis methods, elementary concepts, statistical models and applications of probability, commonly used sampling distributions, parametric and nonparametric one and two sample tests, confidence intervals, applications of analysis of two-way contingency table data, simple linear regression, and simple analysis of variance.
Prerequisites: MA 102 [Min Grade: C] or MA 105 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C]
PUH 302. Epid: Beyond the Outbreak. 3 Hours.
The course will provide students with a basic understanding of epidemiology history, methods, and practice. The history of epidemiology will focus on major historical events such as John Snow and the 1854 Broad Street cholera outbreak. The course will also cover basic epidemiologic methods such measures of disease occurrence (e.g., prevalence and incidence) as well as basic study designs such as case-control and cohort studies. Later in the term, students will utilize actual epidemiologic investigations in order to learn how these methods are put into practice. The coursework will focus mostly on discussion for the first part of the course focused on the history of epidemiology. The section on methods will primarily be problem-based, performing basic analysis of epidemiologic data through calculation of prevalence/incidence and measures of association (e.g., prevalence ratio, incidence rate ratio). This work will lead to students to prepare a document on how they would respond to an outbreak in a situation described by the course master. The entire coursework will take place in a lecture format, with the class meeting twice a week.
Prerequisites: MA 105 [Min Grade: C]

PUH 307. Public Health Systems. 3 Hours.
This course provides a comprehensive overview of public health systems in the United States. A public health system is comprised of an array of entities whose unifying mission is to promote health and well-being at the population level. The course will examine the contributions of federal agencies (Centers for Disease Control, Department of Health and Human Services), state/county/city level health departments, and public and private health care providers (hospitals, long-term care facilities, physicians and nurses) to population health.

PUH 307. Public Health Systems. 3 Hours.
This course provides a comprehensive overview of public health systems in the United States. A public health system is comprised of an array of entities whose unifying mission is to promote health and well-being at the population level. The course will examine the contributions of federal agencies (Centers for Disease Control, Department of Health and Human Services), state/county/city level health departments, and public and private health care providers (hospitals, long-term care facilities, physicians and nurses) to population health.

PUH 321. The Workplace Environment and Worker Safety and Health. 3 Hours.
This course will explore known physical and chemical hazards found in the workplace, and we will combine our technical knowledge with skills to identify and control work-related hazards. We will begin with the importance of key events and milestones in the history of worker safety and health. We will research the ethical, legal and social implications associated with the working environment. We will define the related roles and responsibilities of government, non-government agencies, private organizations, businesses and industry in worker safety and health.

PUH 322. Environmental Justice and Ethics. 3 Hours.
In this course, students will investigate and analyze the disproportionate burdens of environmental contamination and the health disparities affecting communities of color across the U.S. and internationally. Using a broad range of examples we will look at the incidents that lead to this grass roots movement, many of which came from towns and peoples of the Deep South.

PUH 331. The Rise of Non-Communicable Diseases Globally. 3 Hours.
This course provides an introduction to selected key topics in chronic diseases burden endured globally. We will address the following questions: How is it that people in some countries live twice as long as in others? Why is there a rising epidemic of NCDs such as cancer, heart and lung disease, obesity, and diabetes spreading globally? What are the burdens posed by these diseases? What steps are being taken to control it? What key tools are at our disposal? Who are the global actors and stakeholders addressing this global health epidemic? What is the link between globalization and the rise of NCDs?

PUH 332. Global Communicable Disease Challenges. 3 Hours.
This course is designed to introduce students to the major infectious diseases of public health importance globally. Since we cannot cover all infections in depth in the time allowed, we will highlight major categories of infections as well as focus on a few major infections that together cause the greatest morbidity and mortality in children or adults worldwide. The purpose of this course is to equip participants with up-to-date knowledge of resources on major infections of global importance, and their prevention and control strategies.
Prerequisites: (BY 101 [Min Grade: C] and BY 102 [Min Grade: C]) or BY 123 [Min Grade: C]

PUH 333. Food, Water, and Air: the Global Environment and Health. 3 Hours.
This service-learning course will examine food security and nutrition as complex issues of sustainable human development. While learning about food security and nutrition in the classroom, students will gain further understanding of the topic through engaging with non-profit organizations in Birmingham that address food security and nutritional issues. Topics to be covered include issues of availability, access, and use of food in the domestic and global context, as well as current responses and potential solutions. The course will also focus on helping students develop a skill set for global citizenship that includes opportunities for advocacy, leadership, and critical thinking.

PUH 340. Professionalism in Public Health. 3 Hours.
The purpose of this course would be to prepare students to enter the workforce by providing tangible skills including, but not limited to: Ethic of Public Health, Oral and Written Communication, Personal Presentation Skills, Leadership Styles and Working in Teams and Project Management.

PUH 341. Public Health Preparedness and Emergency Management. 3 Hours.
This course will provide participants with an understanding of Public Health Emergency Preparedness (PHEP), exercise development, and evaluation. During this course you will learn how to identify threats within your community, determine what capabilities are most needed to prepare for and meet these threats, and how to develop and evaluate exercises to test knowledge, skills and abilities.

PUH 342. Public Health Disasters. 3 Hours.
This will be a hybrid of environmental disasters and history and consequences of world disasters.

PUH 350. Beating the Odds: Statistical Modeling and Disease Prediction. 3 Hours.
This class provides an introduction into the commonly used statistical methods that are classified as General Linear Models. By the end of the class, students will be able to build and interpret prediction equations using Simple and Multiple Linear Regression. Students will learn the statistical assumptions of the models and how to check the assumptions. Students will learn how to test group differences within a regression framework (Analysis of Variance), test for group differences while controlling for other variables (Analysis of Covariance). In the last weeks of the class, students will learn how to model categorical outcomes.
Prerequisites: PUH 250 [Min Grade: C]
PUH 352. Risk Reporting: Interpreting and Writing Medical News. 3 Hours.
The main tool that scientists use to describe their work is the peer-reviewed research article. These articles are written for a specialist audience of other scientists and clinicians. However, human research is of interest to patients, policies makers, and other non-scientists. Accurate and appropriate interpretation and evaluation of scientific findings is vitally important to their implementation. In this course students will learn how to read and interpret scientific publications, to critically evaluate scientific publications and media coverage of the publications, and to write articles describing scientific findings in ways that are accessible for a general audience. The first part of the semester will consist of lectures and class discussions including guest lectures by science writers. The later part of the semester will include student-lead discussions of scientific and mass-market articles. Evaluation will be based on reading quizzes, class participation and submission of discussion questions before class periods, written assignments interpreting and evaluating scientific and mass-market articles, and a midterm and final exam. 
Prerequisites: PUH 302 [Min Grade: C]

PUH 353. The Domestic Hot Zone: Major Diseases Affecting the U.S.. 3 Hours.
Though infectious diseases still contribute greatly to morbidity in the United States, in the 20th century the causes of mortality in the United States began to shift –known as the epidemiologic transition—from infectious diseases to chronic diseases such as heart disease, cancer, stroke, and diabetes. These four diseases alone account for nearly three-quarters of a trillion dollars in medical expenditure and cause over 1.3 million deaths annually. The purpose of this class is to provide students with detailed knowledge regarding the major diseases that affect the United States, covering both major chronic and infectious diseases. Each week will focus on a disease or family of diseases, and will cover the epidemiology of the disease as well as looking at historical trends in disease incidence and mortality and how the trends have changed in recent years. Students will be graded through the use of take-home assignments, a mid-term examination, and a final examination.
Prerequisites: PUH 302 [Min Grade: C]

PUH 354. Scratching the Iche: Introduction to Infection Control and Hospital Epidemiology. 3 Hours.
This course is designed to focus specifically on concepts involved with performing epidemiological surveillance and research within a hospital setting. With the recent advent of policies set forth by the Affordable Care Act, emphasis has been placed on surveillance and prevention of nosocomial infections in hospitals throughout the country. The course will introduce students to the methodology of infection control in a hospital setting, including how patients are tested for infectious diseases, surveillance methodology, and how an outbreak investigation in a hospital is performed. The course will involve guest lecturers from different departments of the hospital, including but not limited to Infection Control, Patient Safety and Quality, Clinical Laboratory, and Environmental Control. Each week will cover a given topic (e.g., bloodstream and catheter-associated infections, multi-drug resistant pathogens, respiratory diseases). The students will be graded through the use of take-home assignments, a mid-term examination, two case studies, and a group project involving a nosocomial outbreak investigation of an infectious disease of the course master’s choice.
Prerequisites: PUH 302 [Min Grade: C]

PUH 391. Special Topics in Public Health. 1-6 Hour.
This special topics course will be used in the undergraduate program to cover emerging issues or specialized content not represented in the main curriculum.

PUH 405. Managing Public Health Programs. 3 Hours.
This course will consist of lectures and case discussions of management in a public health context. Management involves planning, organizing, directing, and controlling resources to achieve an organizational mission. Following a series of lectures, students will prepare an analysis of an assigned case and present the analysis to the class. Each case analysis presentation will be evaluated by other students and the evaluation presented at a subsequent class meeting. A comprehensive final examination will be administered.

PUH 421. Nature vs. Nurture: Genes, Environment and Health. 3 Hours.
This didactic lecture course will examine how components of the world around us impact our lives and health. The classic battle of nature (genes) vs. nurture (environment) is being replaced with the understanding of how our exposure to our environment impacts gene expression, which can increase (or decrease) our own likelihood of disease. Using everyday, real-world examples we will study the environment-gene interaction and how this helps determine why some people are more disease prone than others. Each example will focus on the underlying science and the medical consequence of exposure, and will also examine exposure prevention strategies for individuals and practical legislation to reduce environmental contamination. Examples will vary from year to year, but damaging examples may include nanoparticles, smog, medical radiation, drugs and alcohol, pesticides, noise, indoor air pollution, toxic metals, plastics, food and water contamination, and sexually transmitted infections. We will also discuss how the environment can positively impact gene expression, and will include discussions of functional foods (i.e. nutraceuticals such as soy, green tea and garlic) and other alternative medicinal therapies. BY 116 or equivalent; completion of or registration in BY210 or BY330 is recommended.

PUH 422. Fundamentals of Toxicology: Poisons and People. 3 Hours.
Basic principles in toxicology will be covered including: dose-response relationships; absorption, distribution, storage, biotransformation and elimination of toxicants; target organ toxicity; mutagenesis and carcinogenesis; and an overview of fate and transport of contaminants in the environment. The course will focus on contaminants of environmental and public health interest and will include the fascinating roles toxins have played in human history.
Prerequisites: PUH 210 [Min Grade: C] and PUH 220 [Min Grade: C]

PUH 423. Global Health Cases. 3 Hours.
Global Health cases refer to instances of health problems that transcend national borders. Diseases are not constrained by borders. Similarly, problems and solutions to these cases are not unique to a particular race, region, socio-political system or even level of economic development. These cases also carry the dubious reputation of having a global political and economic impact. Yet a closer look at site specific successes can yield important lessons about how to tackle the challenges confronting similar cases in other sites.
PUH 436. Maternal and Child Health in Africa and Asia. 3 Hours.
Despite significant advances in global health over the last fifty years, the burden of disease among the maternal and child health (MCH) population in certain areas of the world remains alarmingly high. While child mortality has declined over the last fifty years, maternal and neonatal mortality has seen relatively little improvement, especially in Sub-Saharan Africa and South Asia, which bears a disproportionate share of the global burden of maternal and child health disease. Maternal health is especially critical due to the far ranging impact of a maternal death on the family, community, and society. Fortunately, high impact, cost-effective solutions exist to address these highly preventable maternal and child deaths. In this course we will discuss those successful MCH interventions and policies in addition to identifying different barriers and challenges to the implementation and scale up of MCH services in Africa and Asia.

PUH 441. Public Health Law and Policy. 3 Hours.
PUH 441 will be an introductory course in public health law and policy designed for undergraduate students in public health. There are no prerequisites for this course. The purpose of the course is to introduce non-lawyers to the United States legal system and to the basic principles of law relevant to public health practitioners. It is intended to provide students with basic legal knowledge to assist them in communicating with attorneys about potential legal issues that may arise in formulating policy and exercising leadership in health care organizations. An overarching theme of the course is the tension between community interests and individual rights.

This interdisciplinary course will provide students with basic knowledge about current issues in health and society, both globally and domestically that impact the Maternal and Child Health (MCH) population, which broadly includes women of reproductive age, infants, children, and families. The course will include a specific focus on the role of poverty in the health issues of this population.

PUH 450. Statistical Programming and Database Analysis. 3 Hours.
This class provides an introduction into the commonly used statistical programs and teaches the fundamentals of database design. By the end of the class, students will be able to design and build research databases. Students will also be taught how to conduct statistical analyses using EXCEL and SAS.
Prerequisites: PUH 250 [Min Grade: C]

PUH 491. Directed Study in Public Health. 1-6 Hour.
This course is open to junior and senior level undergraduate students to conduct research or explore an approved topic of interest within global health under the supervision of a faculty mentor. This is an individualized course, and students will have individual end of term goals, typically a comprehensive paper and presentation.

PUH 495. Public Health Capstone Experience. 3 Hours.
This course provides students with the opportunity to synthesize information from the various courses and experiences. Students will report on their service learning experience to discuss issues and report activities. Students will present a final report on their experience and how they applied their coursework. Students must have completed 27 hours of PUH coursework and are encouraged to find a community partner for the course prior to the first day of class. This course should be taken in the last two semesters of graduating.

PUH 498. Special Topics in Public Health. 1-6 Hour.
This special topics course will be used in the undergraduate program to cover emerging issues or specialized content not represented in the main curriculum.

PY-Psychology Courses

Courses

PY 101. Introduction to Psychology. 3 Hours.
Application of scientific method to behavior. Areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.
Prerequisites: PY 101 [Min Grade: D]

PY 108. Human Sexuality. 3 Hours.
Biological and psychological bases of human sexual behavior. Genetic, hormonal, and learning foundations for development of sexual and sex-related structures and of psychosexual identity and behavior. Adult sexual structures and behavior, conception control, pregnancy, lactation and parentalism, drugs and reproduction, and sexual pathology and variances.
Prerequisites: PY 101 [Min Grade: D]

PY 109. Drugs and Human Behavior. 3 Hours.
Historical and cultural perspectives on drug use by humans. Major classes of drugs; effects, side effects, and toxicity. Mechanisms of drug action, drug abuse, government regulations, and use of psychoactive drugs in treatment of mental disorders.
Prerequisites: PY 101 [Min Grade: D]

PY 125. Introduction to Forensic Psychology. 3 Hours.
Overview of issues involving the intersection of law and psychology. Focus on role of clinical assessment of competency, scientific jury selection, expert witnesses in court, punishment and sentencing, and related issues.

PY 201. Honors Introduction to Psychology. 3 Hours.
Advanced seminar in scientific study of behavior and cognitive processes. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences. Permission of Director of Undergraduate Studies required.

PY 212. Developmental Psychology. 3 Hours.
Human development from prenatal period to old age. Genetic and environmental determinants of behavior. Language, cognition, personality, social and emotional behavior, intelligence, and physical and sexual development. Applied areas include child rearing, childhood psychoses, and child abuse. This course fulfills the requirements in Ethics and Civil Responsibility (ECR).
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 213. Cross-Cultural Perspective on Child Development. 3 Hours.
Cultural differences in determinants of child development. Effects of culturally distinct approaches to child rearing and education on infant attachment, temperament, aggression, cognitive development, peer interaction, sex-role socialization, and moral reasoning.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]
PY 2015. Research Literacy in Psychology. 2 Hours.
This course provides an overview of the scientific process and teaches students to read and evaluate scientific reports: popular media to primary literature; emphasizing the importance of being a good consumer of information. The course also teaches students to write scientifically, following accepted formats such as APA.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 2016. Elementary Statistical Methods. 4 Hours.
Descriptive and inferential statistics with emphasis on behavioral science applications. Measures of central tendency and variability, frequency distributions, probability, t-test, correlation, analysis of variance, and regression. Use of computers in statistical analysis of psychological research data. Quantitative Literacy is a significant component of this course. Concurrent enrollment in PY216L required.
Prerequisites: MA 105 [Min Grade: C] or MA 110 [Min Grade: C] or MA 102 [Min Grade: C] or MA 125 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C]

PY 216L. Elementary Statistical Methods Laboratory. 0 Hours.
Statistical Methods Laboratory required with PY 216 lecture. Concurrent enrollment in PY 216 required.
Prerequisites: MA 105 [Min Grade: C] or MA 102 [Min Grade: C] or MA 110 [Min Grade: C] or MA 125 [Min Grade: C] or MA 106 [Min Grade: C] or MA 107 [Min Grade: C] or MA 109 [Min Grade: C]

PY 218. Abnormal Psychology. 3 Hours.
Research-oriented study of different types of maladaptive behavior, including symptoms, development, classification, and treatment. Ethics and Civic Responsibility are significant components of this course.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 220. Contemporary Issues in Psychology. 3 Hours.
Issues of current interest in psychology.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 222. Honors Developmental Psychology. 3 Hours.
Advanced seminar in human development from prenatal period to old age. Genetic and environmental determinants of behavior. Language, cognition, personality, social and emotional behavior, intelligence, and physical and sexual development.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 226. Honors Elementary Statistical Methods. 4 Hours.
Advanced seminar in descriptive and inferential statistics with emphasis on behavioral science applications. Measures of central tendency and variability, frequency distributions, probability, t-test, correlation, analysis of variance, and regression. Use of computers in statistical analysis of psychological research data. Quantitative Literacy is a significant component of this course. Concurrent enrollment in PY216L required.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 228. Honors Abnormal Psychology. 3 Hours.
Advanced seminar in research-oriented study of different types of maladaptive behavior, including symptoms, development, classification, and treatment.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 240. Psychology of Social Inequality. 3 Hours.
The gap in income between the rich and the poor has been growing steadily larger in the United States for over 30 years. Psychological science has produced some surprising insights about the causes and effects of this contentious trend. Among topics that will be tackled are how poverty affects decision making, wealth changes how people treat others, and racial discrimination affects responses to stress.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 253. Brain, Mind and Behavior. 3 Hours.
How brain functions during dreaming, visual perception, aggression, learning and memory, sex, and language. Left versus right hemisphere specializations, recovery after brain damage, and neurological basis of illnesses such as schizophrenia, autism, and Parkinson's disease. Includes five hours of videos. Quantitative Literacy is a significant component of this course.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 302. History and Systems of Psychology. 3 Hours.
Historical origins and development of major approaches to psychology.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 303. Introduction to Cognitive Science. 3 Hours.
Introduction to the exciting new discipline of cognitive science, the interdisciplinary study of mind and intelligence. This course draws on a number of disciplines involved in unraveling the mysteries of the mind and intelligent life.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 305. Medical Psychology. 3 Hours.
Prerequisites: PY 101 [Min Grade: D] or PY 201 [Min Grade: D]

PY 312. Advanced Developmental Psychology. 3 Hours.
Current research and theory in childhood and adolescence with focus on perceptual/cognitive and social/emotional issues. Relationship between spoken language development and learning to read, linguistic development in special populations (e.g., hearing-impaired children), applications of memory research to children's courtroom testimony, impact of preschool experience (e.g., Head Start) on academic achievement, and family and peer influence on cognitive and social development.
Prerequisites: PY 212 [Min Grade: C] or PY 222 [Min Grade: C]

PY 313. Introduction to Language Development. 3 Hours.
Children's acquisition of the ability to speak and understand their native language. Learning to read and write. Language abilities in special populations (e.g., the hearing-impaired, mentally-retarded, elderly individuals). Communication abilities in nonhumans.
Prerequisites: PY 212 [Min Grade: C] or PY 222 [Min Grade: C]

PY 315. Methods in Psychological Research. 4 Hours.
This course provides an overview of scientific methods used to investigate psychological phenomena, including correlational methods, quasi-experimental methods, and experimental methods. It considers issues related to problem definition, hypothesis formation, measurement, causal inference, validity, and reliability and includes a strong emphasis on writing, quantitative analysis and questions of ethics and civic responsibility. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course.
Prerequisites: PY 215 [Min Grade: C] and PY 216 [Min Grade: C] or (PY 214 [Min Grade: C] and PY 217 [Min Grade: C] and PY 215 [Min Grade: C])
PY 316. Research Methods in Psychology. 3 Hours.
Overview of specific research methods such as correlational, quasi-experimental, and experimental methods. Students will design and conduct research. As such it includes a strong emphasis on quantitative analysis and questions of ethics and civic responsibility. This course also provides practical knowledge of the scientific methodology such as problem definition, hypothesis formation, measurement, causal inference, validity, and reliability. Writing, Quantitative Literacy and Ethics and Civic Responsibility are significant components of this course.
Prerequisites: PY 215 [Min Grade: C] and PY 216 [Min Grade: C] or (PY 214 [Min Grade: C] and PY 215 [Min Grade: C] and PY 217 [Min Grade: C])

PY 319. Psychopathology and Culture. 3 Hours.
Cultural differences with respect to types of behavior viewed as abnormal and how such behaviors are classified and treated.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 320. Contemporary Issues in Psychology. 3 Hours.
Issues of current interest in psychology.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 325. Clinical Child Psychology. 3 Hours.
Diagnosis, prevention and treatment of psychological problems in children and adolescents. Interview techniques, behavioral and cognitive interventions, and community prevention programs. Developmental considerations emphasized.
Prerequisites: PY 218 [Min Grade: C] or PY 228 [Min Grade: C]

PY 326. Industrial/Organizational Psychology. 3 Hours.
Psychological methods applied to people at work. Selection, placement, performance appraisal, training, attitude measurement, work motivation, leadership, industrial safety, and human performance.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 330. Sport Psychology. 3 Hours.
Psychological factors in athletic performance. Psychological characteristics of successful athletes; anxiety, arousal, motivation, attention, concentration, attribution, cognition, and imagery.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 335. Motivation and Emotion. 3 Hours.
Psychobiological basis of eating, drinking, sleep, sex, aggression, emotions, and social motivation. Underlying mechanisms involved in these motivated behaviors from basic biological need (homeostasis) to abnormal conditions as occurs in eating, sleep disorders, genetic anomalies, drug addiction, and criminal violence.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 350. Personality and Intellectual Assessment. 3 Hours.
Measurement of personality and other psychological characteristics through psychological tests. Selection, administration, and interpretation of psychological tests.
Prerequisites: PY 214 [Min Grade: C] or PY 216 [Min Grade: C]

PY 353. Behavioral Neuroscience. 3 Hours.
Neurobiological basis of behavior. Central nervous system mechanisms that mediate processes such as learning, motivation, sensation, speech, and emotional behavior.
Prerequisites: PY 253 [Min Grade: C]

PY 354. Autism: Brain and Cognition. 3 Hours.
Autism is a disorder that affects every facet of human functioning. Its multidimensional manifestation is enigmatic to researchers as well as to affected families. This course will examine the scientific research that has illuminated the nature of autism, focusing on its cognitive and biological aspects. We will examine different perspectives of thinking and various biological underpinnings of brain function, to converge on the most recent scientific consensus on the biological and psychological characterization of autism. There will be a special focus on structural and functional brain imaging studies of autism.
Prerequisites: PY 253 [Min Grade: C]

PY 355. Cellular & Molecular Neuroscience. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize the development, anatomy, cellular and molecular biology and biochemistry of neurons and glial cells, and introduce electrical, biophysical and chemical signaling within and across neurons.
Prerequisites: PY 253 [Min Grade: C] and BY 123 [Min Grade: C] and CH 115 [Min Grade: C]

PY 356. From Systems to Cognitive Neuroscience. 3 Hours.
Introduction to the cellular and molecular biology, biochemistry, biophysics, genetics and function of the mammalian nervous system. This course will emphasize mechanisms of synaptic transmission, sensory systems, neuropharmacology, and synaptic plasticity; and introduce the molecular basis of diseases and disorders of the central and peripheral nervous systems.
Prerequisites: PY 355 [Min Grade: C] or NBL 355 [Min Grade: C]

PY 361. Psychology of Learning. 3 Hours.
Issues of learning in terms of current theoretical positions. Classical conditioning, instrumental conditioning, forgetting, role of motivation, and transfer of training.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 363. Cognitive Psychology. 3 Hours.
Human cognitive functioning. Selective attention, information processing, models of learning, memory, perception, and free and structured thought processes.
Prerequisites: PY 253 [Min Grade: C]

PY 370. Personality. 3 Hours.
Comparison of major theories of personality, including philosophy of human nature; structure, dynamics, and development of personality.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 372. Social Psychology. 3 Hours.
Major theories and research in social psychology. Social perception and attribution, behavior in interpersonal relationships, and group influences on individual behavior.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]

PY 375. Philosophy of Mind. 3 Hours.
Mind; its nature, forms, and functions. Consciousness, self-consciousness, action, belief, desire, rationality, personal identity; problems such as mind-body, psychological explanation, and freedom of will. Prerequisite: one previous PHIL course or permission of instructor.

PY 376. Psychology and Law. 3 Hours.
Interaction between theories and applications of psychology and practice of civil and criminal law. Insanity, malpractice, competency, civil commitment, violence, jury selection, and expert-witness testimony.
Prerequisites: PY 101 [Min Grade: C] or PY 201 [Min Grade: C]
PY 380. Perception. 3 Hours.
Contemporary theory and empirical research in sensory coding of perceptual information. Sensory transduction, physiology and anatomy of sensory systems, and psychophysical measurement techniques. Visual perception, hearing and speech, smell, and taste.
Prerequisites: PY 253 [Min Grade: C]

PY 390. Animal Behavior. 3 Hours.
The foundation of animal behavior as it relates to the study of psychobiology and evolutionary psychology. Reproductive and survival strategies, communication, learning, cognition, orientation navigation/ homing, behavioral genetics, and evolution.
Prerequisites: PY 101 [Min Grade: C] (Can be taken Concurrently) or PY 201 [Min Grade: C]

PY 396. Teaching Practicum in Psychology. 1-3 Hour.
Teaching experience in psychology courses, supervised by a faculty member. Student must have previously taken the course for which the student will work within. Permission of Director of Undergraduate Studies required. Pass/Fail.

PY 397. Community-Based Practicum in Psychology. 1-6 Hour.
Community work in various supervised settings such as Crisis Center, Department of Human Resources, etc. Permission of Director of Undergraduate Studies required. (Pass/Fail) Ethics and Civic Responsibility are significant components of this course.

PY 398. Research Practicum in Psychology. 1-6 Hour.
Project or research activity supervised by faculty. Cannot be taken Pass/Fail. Permission of Director of Undergraduate Studies required.

PY 399. Psychology Honors Seminar. 1 Hour.
Focus on preparation for graduate/professional school and conducting psychological research, including presentation of research and discussion of relevant issues in statistical analysis, research methods, and ethics. Prerequisites: Admission into the Psychology Honors Program and Elementary Statistical Methods (may be concurrent enrollment).
Prerequisites: PY 216 [Min Grade: C] (Can be taken Concurrently)

PY 401. Neuroscience Seminar. 1 Hour.
Neuroscience faculty from the School of Medicine and Psychology present current research and discuss strategies for career development in medicine and research. Group discussion follows research presentation.
Prerequisites: PY 253 [Min Grade: C]

PY 405. Biofeedback, Meditation, and Self-Regulation. 3 Hours.
History and current applications of biofeedback, meditation, and relaxation techniques.
Prerequisites: PY 315 [Min Grade: C] or PY 316 [Min Grade: C]

PY 411. Cognitive Development. 3 Hours.
Development of and changes in memory, perception, learning, and thinking throughout the lifespan.
Prerequisites: PY 212 [Min Grade: C] or PY 222 [Min Grade: C] and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 412. Social Development. 3 Hours.
Contemporary theoretical models and empirical research in social development. Attachment formation in infancy, parent-child and family interactions, peer relationships, moral and pro-social development, aggression, and sex role development.
Prerequisites: PY 212 [Min Grade: C] or PY 222 [Min Grade: C] and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 413. Psychology of the African American Child. 3 Hours.
Psychological development of African American children from birth through adolescence. Prenatal influences on growth and development, cognitive development, practices of African American families, Black English and language development, psychological testing, self-concept, racial identification, and motivation and academic achievement.
Prerequisites: (PY 212 [Min Grade: C] and PY 222 [Min Grade: C]) and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 415. Intellectual and Developmental Disabilities. 3 Hours.
History, causes, treatment/education, behavioral interventions, and family issues related to Intellectual and Developmental Disabilities and other developmental disabilities. Psychologist as member of interdisciplinary treatment team.
Prerequisites: (PY 212 [Min Grade: C] or PY 222 [Min Grade: C]) and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 418. Psychotherapy and Behavior Change. 3 Hours.
Different therapeutic approaches and issues relating to their effectiveness. Principles of behavior modification.
Prerequisites: (PY 218 [Min Grade: C] or PY 228 [Min Grade: C]) and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 420. Special Topics in Psychology. 3 Hours.
Issues of current interest in psychology.
Prerequisites: PY 315 [Min Grade: C] or PY 316 [Min Grade: C]

PY 422. Infant Development. 3 Hours.
The goal of the course is to review contemporary theory, research, and methods relevant to understanding infant development. The course focuses on both normative and atypical development because an understanding of one enriches an understanding of the other. Individual differences, sociocultural diversity, and a historical perspective on the study of all these themes will be emphasized throughout. Topics will include: Genetic and environmental influences on development & temperament; Neurodevelopment & Risk, Resilience, & Intervention; Sensory development; Cognitive development; Social cognitive development, joint attention; Language development; Emotion & emotion regulation; Social Interaction; Precursors to attachment.
Prerequisites: PY 316 [Min Grade: C]

PY 423. Abnormal Child Development. 3 Hours.
Current research and theories related to aberrations of normal development processes, including autism, childhood schizophrenia, and other disorders of childhood.
Prerequisites: (PY 218 [Min Grade: C] or PY 228 [Min Grade: C]) and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 425. Psychology of Aging. 3 Hours.
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in cognitive function, behavior, sensation/ perception, health, and personality, as well as dementia and other forms of psychopathology. (Also offered under Gerontology.).
Prerequisites: (PY 212 [Min Grade: C] or PY 222 [Min Grade: C]) and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 431. The Dynamics of Pain. 3 Hours.
Prerequisites: (PY 253 [Min Grade: C] or NBL 230 [Min Grade: C]) and (PY 315 [Min Grade: C] or PY 316 [Min Grade: C])
PY 433. Diseases of the Nervous System. 3 Hours.
Molecular mechanisms and treatments for neurological, psychiatric, and injury based disorders and diseases of the nervous system. Topics include neurodevelopmental disorders (including intellectual disability and autism spectrum disorders), neurological disorders (including neurodegenerative and demyelinating disease), neuropsychiatric disorders (including depression disorders and schizophrenia), and injury to the nervous system (including stroke and traumatic brain and spinal cord injury).
Prerequisites: PY 353 [Min Grade: D] or PY 355 [Min Grade: C] or PY 356 [Min Grade: C]

PY 441. Principle Cell Neuroscience Module I. 2 Hours.
Module I: Molecules, genes and cell biology of the nervous system. The first module will cover the biochemistry, molecular and cellular biology of neurons and glial cells. Topics on biochemistry and molecular biology will include protein, lipid, carbohydrate and nucleic acid biosynthesis and structure. Next, the cell biology of neurons and glial cells will be introduced, including protein and membrane transport pathways, energy metabolism, protein turnover and gene regulation. Introductory basic concepts of nervous system development will be covered, including the differentiation of neurons and glial cells and the anatomical plan of the brain and spinal cord. This developmental neurobiology concepts are intended to be an introduction to a later graduate-level course taught in the second year (Developmental Neurobiology, Keyser).
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 442. Principle Cell Neuroscience Module II. 2 Hours.
Module II: Membrane biophysics and synaptic transmission. The second module will introduce basic concepts of membrane biophysics, as well as the electrical and chemical signaling within and across neurons. Topics will include the resting membrane potential, passive and active propagation of electrical signals, active electrogenic properties of dendrites and axons, structure and function of voltage-gated and ligand-gated ion channels, and mechanisms of action potential conduction. The molecular and cellular mechanisms of synaptic transmission, the transfer of information between neurons, will then be covered in detail. Topics will include mechanisms of synaptic vesicle synthesis and their filling with neurotransmitters, their storage, exocytosis, endocytosis and recycling, the role of neurotransmitter transporters in clearance and termination of neurotransmitter actions, postsynaptic receptors and signal transduction pathways, as well as the dynamic changes in synaptic structure and function. Fundamental basic concepts of neurotransmitter receptor pharmacology will also be presented as the bases for understanding neuropharmacology, the effect of drugs on nerve cell function.
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 444. Principle Cell Neuroscience Module IV. 1 Hour.
Module IV: Discussion of classical and contemporary research articles. This class will use a journal club format to dissect and discuss primary research literature on topics that parallel the material taught in lectures. Research articles will include groundbreaking seminal papers ("classical") and modern, state-of-the-art experimental approaches in Neuroscience ("contemporary").

PY 452. Advanced Behavioral Neuroscience. 4 Hours.
Neural systems which control behavior will be studied, incorporating knowledge gained from neurobiological and psychological research. Topics will include synaptic communication, sensation and perception, movement, genetic influences on behavior, motivation, emotions, psychopathology, brain plasticity, and an extended module on learning.
Prerequisites: PY 353 [Min Grade: D] or PY 355 [Min Grade: D] or PY 363 [Min Grade: D] or NBL 355 [Min Grade: D]

PY 453. Integrated Systems Neuroscience. 3 Hours.
Advanced Topics in Behavioral Neuroscience will cover methods and discoveries in the neuroscience of behavior, such as brain imaging, human and animal learning, perception, neurophysiology, neuropharmacology and psychiatric disorders.
Prerequisites: PY 453 [Min Grade: C]

PY 455. Psychology of Eating Disorders and Obesity. 3 Hours.
The history, epidemiology, genetic, environmental, and behavioral correlates and prevention and treatment strategies of eating disorders and obesity. Includes mechanisms of normal feeding and weight control and general research methods used to understand psychiatric disorders.
Prerequisites: PY 253 [Min Grade: C] and (PY 315 [Min Grade: C] or PY 316 [Min Grade: C]) and (PY 353 [Min Grade: C] or PY 335 [Min Grade: D] or PY 355 [Min Grade: D])

PY 457. Human Psychophysiology. 3 Hours.
Physiology, instrumentation, and methodology of psychophysiological measurements, including autonomic and central nervous systems. Consideration of basic and applied research.
Prerequisites: PY 253 [Min Grade: D] and PY 315 [Min Grade: D]

PY 460. Advanced Neuroscience: From Molecules to Mind. 3 Hours.
Builds on foundation set in PY 355. Provides in-depth understanding of nervous system functions at molecular, cellular, biophysical, and circuit level. Includes developmental, cognitive, systems and clinical neuroscience.
Prerequisites: PY 355 [Min Grade: C]

PY 463. Cognitive Neuroscience. 3 Hours.
Interdisciplinary study of higher-order cognitive functions in humans. Data from functional brain imaging, neurology, neuroanatomy, and neurophysiology used in study of human perception, language, learning, and memory.
Prerequisites: PY 353 [Min Grade: C] or PY 355 [Min Grade: C] or PY 363 [Min Grade: C] or NBL 355 [Min Grade: C]

PY 466. Behavioral Neuroscience Measurements, Methods & Models. 3 Hours.
Data Methods, Measurements & Models. This course is about data: how to obtain it (electronics and basic programming), understanding the processes that generate data (probability and basic statistics), and how to model data using Simulink and Matlab Curve Fitting.
Prerequisites: PY 253 [Min Grade: C]
PY 468. Cognitive Neuroimaging. 3 Hours.
This course will focus on examining the neural bases of higher cognitive and social functions. We will discuss the basics of functional MRI and will study scientific papers in neuroimaging to arrive at neural characterization of cognitive functions, such as: executive functions, emotion, intentionality, language comprehension, and social cognition. This course will provide students a unique opportunity to learn about the potential of neuroimaging in understanding cognition. It will also help students refine their research interests and possibly choose the field of neuroscience to pursue further studies.
Prerequisites: PY 315 [Min Grade: C] or (PY 316 [Min Grade: C] and PY 253 [Min Grade: C])

PY 472. Social Psychophysiology. 3 Hours.
Current research on the effects of the social world on hormonal responses (cortisol, testosterone etc.). Several research articles will be discussed every week in a seminar format.
Prerequisites: PY 315 [Min Grade: C] or PY 316 [Min Grade: C]

PY 488. Pediatric Psychology. 3 Hours.
Behavioral influence on health and illness; impact of health problems and illness on behavior and development of children and adolescents; family issues related to these interactions.
Prerequisites: (PY 212 [Min Grade: C] or PY 222 [Min Grade: C]) and (PY 316 [Min Grade: C] or PY 315 [Min Grade: C])

PY 490. Psychology Capstone/SL. 3 Hours.
Capstone emphasizes the synthesis of knowledge and research skills expected of the undergraduate Psychology major. Students are guided in conducting research within a specific content area. Use of computers in statistical analysis of psychological research data. Also includes class readings and discussions on ethical issues. Observation or community service in selected social service agencies is an integral part of the course. Ethics and Civic Responsibility, Writing and Quantitative Literacy are significant components of this course. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.
Prerequisites: PY 315 [Min Grade: C] or PY 316 [Min Grade: C]

PY 499. Psychology Honors Thesis. 2 Hours.
The Capstone course represents the culmination of the undergraduate major in Psychology for participants in the Psychology Honors Program. Students complete their honors thesis with guidance from their research mentor and the honors program Director, and defend their thesis in the Psychology Honors Seminar, and also present their research at a conference or in another public venue. Participation in the Honors Program in Psychology and completion of 3 semesters of PY 399 required, one of which may be concurrently enrolled.
Prerequisites: PY 399 (Can be taken Concurrently)

QM-Quantitative Methods Courses

Courses

QM 214. Quantitative Analysis I. 3 Hours.
Basic statistical concepts applied to business problems. Descriptive statistics, index numbers, basic probability, Binomial, normal, Poisson, sampling, statistical inference, distributions, and estimation.
Prerequisites: (MA 105 [Min Grade: C] or MA 109 [Min Grade: C] or MA 125 [Min Grade: C]) and BUS 110 [Min Grade: C]

QM 215. Quantitative Analysis II. 3 Hours.
Continuation of QM 214. Hypothesis testing, Chi-square distribution, simple regression and multiple regression. Other topics include: analysis of variance, time series, nonparametric statistics and quality control.
Prerequisites: QM 214 [Min Grade: C]

QM 350. Quantitative Methods for Finance. 3 Hours.
Development of the mathematical foundations of undergraduate level financial modeling and analysis, including applications of calculus, probability theory, linear algebra and Monte Carlo simulation to the measurement of asset returns and the assessment of risk, to the pricing of options and other financial derivatives, and to the solution of important financial optimization problems.
Prerequisites: (QM 215 [Min Grade: C] and GPAT and GPAO 2.00) and (QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

QM 400. Survey of Management Science. 3 Hours.
Application of mathematical and statistical techniques to management problems. Network planning techniques, linear programming, inventory systems, queuing theory, simulation, and decision analysis.
Prerequisites: (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C]) or (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C]) and QM 416. Nonparametric Statistics. 3 Hours.
Nonparametric methods applied to business decisions. Nonparametric tests for medians using one and two samples; tests for randomness and independence. Contingency tables and goodness of fit tests. All applications in area of behavioral sciences, particularly marketing and management. Completion of all pre-business requirements required.
Prerequisites: (EC 210 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 210 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

QM 416. Sampling Techniques. 3 Hours.
Sampling procedures and application to estimation problems in business. Simple random, stratified, and cluster sampling reviewed and applied to simple and ratio estimators. Completion of all pre-business requirements required.
Prerequisites: (QM 215 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAT and GPAO 2.00) or (QM 215 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

QM 420. Applied Forecasting. 3 Hours.
Practical use of various forecasting techniques on business and economic data. Topics include dynamic regression models, exponential smoothing, forecast criteria, moving averages, seasonality, and univariate Box Jenkins ARIMA modeling. Completion of all pre-business requirements required.
Prerequisites: (GPAT and GPAO 2.00 and AC 201 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and LS 246 [Min Grade: C] and QM 215 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)
QM 425. Applied Regression Analysis. 3 Hours.
Simple, multilinear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer. Completion of all pre-business requirements required.
Prerequisites: (GPAT and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C]) or (GPAU 2.00 and GPAO 2.00 and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C])

QM 442. Statistics for Quality and Productivity. 3 Hours.
Application of statistics to improve quality and productivity throughout organization. Process analysis and improvement via numerical and graphical procedures illustrated with construction and interpretation of control charts. Tolerances, specifications, process capability studies, and elements of total quality program as espoused by Deming and Ishikawa.
Prerequisites: (MG 403 [Min Grade: C] and GPAT and GPAO 2.00) or (MG 403 [Min Grade: C] and GPAU 2.00 and GPAO 2.00)

QM 490. Advanced Topics in Statistics/Management Science. 3 Hours.
Statistics/management science application to problems in business and economics.
Prerequisites: (GPAT and GPAO 2.00) or (GPAT and GPAO 2.00)

QM 499. Directed Readings in Quantitative Methods. 1-3 Hour.
Readings and independent study in selected areas.
Prerequisites: (GPAT and GPAO 2.00) or (GPAT and GPAT and GPAO 2.00) or (MG 403 [Min Grade: C] and QM 215 [Min Grade: C] and EC 210 [Min Grade: C] and EC 211 [Min Grade: C] and QM 215 [Min Grade: C])

RST-Respiratory Therapy Courses

RST 440. Asthma Certification Preparation Course. 4 Hours.
The content of this course will cover the asthma condition, pathophysiology of asthma, factors that contribute to acute and chronic asthma, patient history, physical examination of the asthma patient, objective measures to identify and assess asthma severity, how to assess the patient's performance and asthma protocols.

SOC-Sociology Courses

Courses

SOC 100. Introduction to Sociology. 3 Hours.
Human social life, its forms and consequences for everyday life. Social inequality and differentiation by race, ethnicity, class and gender. Assessment of the competency is through performance on course examinations, quizzes, and written assignments. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

SOC 120. Introduction to Social Psychology. 3 Hours.
How societies and groups affect perception of self and others; emotional climate and structure of group interaction; processes and dynamics of group leadership, interaction, and dissolution.

SOC 130. Intimate Relationships and the Family. 3 Hours.
Contemporary trends of marriage, cohabiting and partnerships; dating and courtship; social and psychological factors in mate selection; marital adjustment; role of sex, money, and children in marriage; divorce, other crisis situations, and changing patterns of family relationships in U.S. including the increase in LGBT families.

SOC 135. Human Sexuality. 3 Hours.
Social basis of sexual interaction; varieties of sexual interaction; sexuality related to daily life; attitudes, contraceptive use, and fertility and fecundity; sex role controversies; relation to institutions such as family, religion, medicine, and education; social definitions as determinants of behavior.

SOC 200. Social Change. 3 Hours.
Understanding social change helps us to better anticipate, prepare for, and shape the future. Examination of how and why human societies have changed so profoundly since prehistoric times; focus on information and technology as catalysts for change; patterns of change in contemporary societies from world system and comparative perspectives.

SOC 220. Sociology of Sex and Gender. 3 Hours.
This course discusses the presumed biological differences; socialization differences of females and males; positions in and treatment by major institutions such as education, religion and economy; influence of gender labeling on development and lives of individuals.

SOC 235. Sociology of Religion. 3 Hours.
Social aspects of individual religious experience; organization of churches and sects; relationships among religion, science, and other institutions; Major faith groups: religion and global conflict.

SOC 245. Contemporary Social Problems. 3 Hours.
How certain social conditions or behaviors come to be seen as social problems, why they persist and how they can be changed. Emphasis on understanding contemporary issues, and how diverse social groups are impacted by them. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

SOC 250. Sociology of Race and Ethnicity. 3 Hours.
Various ethnic and racial groups, with emphasis on theory and research on intergroup relations; internal structure, culture, and experiences of ethnic groups, with emphasis on contemporary American society.

SOC 255. Urban Sociology. 3 Hours.
Lifestyle changes in urban society; social and demographic characteristics of cities; benefits and problems resulting from these characteristics; urban problems compared with rural and suburban problems.

SOC 278. Global and International Sociology. 3 Hours.
Globalization is a pervasive feature of contemporary social life. A world economy, a world polity, and a world culture are rapidly expanding. This course examines globalization's aspects and impacts to begin understanding its causes, effects, and implications for our own lives.

SOC 280. Introduction to Medical Sociology. 3 Hours.
Social and cultural factors in defining health and illness; social determinants of health; health and illness behavior; health professionals; organization and delivery of health care in the U.S. (This course was formerly titled Health and Society).

SOC 282. Minority Health. 3 Hours.
The relationship between race, ethnicity, health, social and behavioral factors, and health policy. Health related issues specific to various racial and ethnic groups will be discussed.
**SOC 283. The Sociology of Mental Health. 3 Hours.**
Examination of mental and illness in its social context the social construction of mental health and illness the interrelationships between social structure, social factors, stress, coping resources and mental health experiences of mental health and illness.

**SOC 285. Introduction to Aging. 3 Hours.**
Aging experience in modern world. Theories of aging, dimensions of aging, everyday concerns associated with aging, and future prospects of aging.

**SOC 290. Special Topics in Sociology. 1-3 Hour.**
Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: C]

**SOC 291. Special Topics in Sociology. 1-3 Hour.**
Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 292. Special Topics in Sociology. 1-3 Hour.**
Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 293. Special Topics in Sociology. 1-3 Hour.**
Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 294. Special Topics in Sociology. 1-3 Hour.**
Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 295. Special Topics in Sociology. 1-3 Hour.**
Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 310. Sociological Literacy. 3 Hours.**
Focus on the critical understanding of the sociological imagination through social research. This class will advance an understanding of the development, production, and interpretation of social research, including statistical analysis. The goal of the course is to provide students with the tools they need to become better consumers of social science research.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 315. The Sociology of Terrorism. 3 Hours.**
Examination of the social and psychological explanations of the phenomenon, with particular emphasis given to theories of social construction of terrorism.

**SOC 316. Popular Culture. 3 Hours.**
Relationship between popular culture, our cultural heritage, and present cultural identity. Connections with big business, music, sports, politics, film and mass media. Analyze cultural objects (movies), compare past mindsets with the present.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 317. Sociology of Social Media. 3 Hours.**
Communication and information technology as a product of social, economic, political, cultural forces. Its impact on everyday life. Focus on the Internet and how individuals use it to gather, distribute and convey information.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 319. Sociology of The South. 3 Hours.**
Focus on the South as a unique region. Examining areas such as history, politics, race relations, religion, music, personality, social types and collective behavior.
Prerequisites: SOC 100 [Min Grade: C]

**SOC 320. Sociology Through Fiction. 3 Hours.**
Sociological theories and concepts as illustrated in contemporary fiction. Classes will vary in terms of the fictional genre explored.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 323. Social Structure and Personality. 3 Hours.**
Interaction of social structure and personality; motivation, cognition, and impact of family, social class, and other institutions on personality development and mental illness.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 335. Human Sexuality: A Comparative Approach. 3 Hours.**
Sexual identity from a sociological perspective. Topics include: theories of sexual orientation, social movements related to sexual identity, development of sexual identity over the life course, and relationship to social institutions such as the family, medical community, and legal system.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 336. Sport and Society. 3 Hours.**
Sociological analysis of sport in contemporary societies. Sport as microcosm of society and modern institution; socialization process, problems of racial and sexual inequality, aggression and violence, mass media, and societal change.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 340. Deviant Behavior. 3 Hours.**
How and why certain behaviors, thoughts, and characteristics are labeled deviant; how and why certain individuals are labeled; consequences of being labeled; individual and group conflict; socialization to deviance; education: law enforcement; institutions; influence on family and friends.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 350. Sociology of Hip Hop. 3 Hours.**
Examines the emergence and impact of Hip Hop music and culture from historical, aesthetic, and sociopolitical perspectives.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 357. Population Problems. 3 Hours.**
Scope and method of population analysis; analysis of growth, distribution of characteristics, and changes of population of U.S.; impact of changes in population structure on American and world society.
Prerequisites: SOC 100 [Min Grade: D]

**SOC 383. Drugs and Society. 3 Hours.**
Variety of legal and illegal drugs in use in our society, their history, their social effects, and strategies for control and prevention of their abuse.

**SOC 395. HIV/AIDS and Society. 3 Hours.**
This course explores the social impact of HIV/AIDS in local, national, and international contexts, focusing on how society has responded to and changed as a result of HIV/AIDS, including public health surveillance and interventions, policies and funding for prevention/research, and broader cultural changes.

**SOC 405. Mind, Self and Society. 3 Hours.**
Symbolic interaction as major theoretical perspective of sociological social psychology; origins of approach in Mead, Blumer, and Goffman. Significance of concepts such as role-taking, impression management, self, identity and symbolic interaction.
Prerequisites: SOC 100 [Min Grade: D]
SOC 407. Development of Sociological Theory. 3 Hours.
Social thought from earliest classic thinkers to current sociological theories; interrelationship between sociological theory and research; how theories are constructed; application of theory to contemporary problems through various writing assignments. Writing is a significant component of this course.
Prerequisites: SOC 100 [Min Grade: D]

SOC 408. Medical Sociological Theory. 3 Hours.
This course provides a basic introduction to the use of sociological theory in medical sociology. The course begins with an examination of the relevant work of classical theorists, such as Durkheim and Weber, and extends to contemporary theory, including theories that have been developed by medical sociologists.
Prerequisites: SOC 310 [Min Grade: C]

SOC 410. Social Statistics. 4 Hours.
Elementary techniques and analysis; preparation and use of graphs and tables; measures of central tendency and dispersion; probability and sampling; tests of significance and measurements of association. Quantitative Literacy is a significant component of this course.
Prerequisites: MA 102 [Min Grade: D] or MA 110 [Min Grade: D]

SOC 410L. Social Statistics Laboratory. 0 Hours.
Laboratory component of SOC 410. Required for all sociology majors. Cross listed as SW 321L. Quantitative Literacy is a significant component of this course.

SOC 415. Social Stratification. 3 Hours.
Inequality of wealth, prestige, and power distribution examined as caste-class differences; effect of stratification on individuals and their behavior, lifestyle, and life chances.
Prerequisites: SOC 100 [Min Grade: D]

SOC 417. Political Sociology. 3 Hours.
Political sociology traces the relationships between political ideas, government structures, social life, and the neverending efforts of individuals and groups to modify these relationships to achieve their best notions of the good life.

SOC 431. Environmental Sociology. 3 Hours.
Examines the interaction between the biophysical environment and human society, how social processes, define, construct, and alter the environment, and human causes and consequences of environmental problems.

SOC 445. Biology and Society. 3 Hours.
This course introduces students to the basic techniques and theoretical models through which modern sociologists and other social scientists incorporate genetic and biological information and processes into their understanding of society.

SOC 456. Death and Dying. 3 Hours.
Death, dying and bereavement from sociological and social psychological perspectives.
Prerequisites: SOC 100 [Min Grade: D]

SOC 457. Family Relations over the Life Course. 3 Hours.
This course examines family relationships from middle to late adulthood from a sociological perspective. We examine issues such as caregiving, preparing for retirement, family relationships and how they vary depending on family structure, effects of divorce and remarriage, parenting at older ages and assisted reproductive technologies, transfers and saving, family ties etc. Much of the class is oriented towards how later life experiences are guided by earlier life situations.
Prerequisites: SOC 100 [Min Grade: D]

SOC 460. Sociology of Work. 3 Hours.
Social organization of occupations; role and function in modern industrial society; gender and race; professionalism, job choices, and careers and stress; labor force composition, unemployment, and retirement. This class often does a field trip to a local business.

SOC 470. Population Dynamics. 3 Hours.
Scope and method of population analysis; analysis of growth, distribution of characteristics, and changes of population of U.S.; impact of changes in population structure on American and world society.
Prerequisites: SOC 100 [Min Grade: D]

SOC 480. Sociology of Health and Illness. 3 Hours.
Critical evaluation of medical care system and health policy; social consequences of current health issues; social causes of health and illness; alternative practitioners and self-help groups. (This course was formerly titled Medical Sociology).
Prerequisites: SOC 100 [Min Grade: D]

SOC 482. Gender and Health. 3 Hours.
Sociological, psychological and biological explanations of gender differences in mental and physical health across the life course.

SOC 484. Quantitative Research Methods. 3 Hours.
Comprehensive introduction to quantitative research in the social sciences, with an overview of the scientific method and the philosophy of science. Detailed study of quantitative research designs, sampling techniques, and measurement.
Prerequisites: SOC 310 [Min Grade: C]

SOC 486. Qualitative Research Methods. 3 Hours.
Learn methods for conducting qualitative sociological research including participant observation, interviews, and content analysis; ethics of qualitative research; ethnographic field strategies; preparing for and conducting in-depth interviewing and focus groups; analyzing the interrelationships between research and thinking theoretically; reading and evaluating qualitative research; proposing own research projects using appropriate qualitative methods.
Prerequisites: SOC 310 [Min Grade: C]

SOC 488. Sociological Practice/SL. 3 Hours.
Students will be involved in community research and/or service-learning projects related to a substantive area of sociology or gerontology. Placement in community organizations to focus on research or practice related to social policy.
Prerequisites: SOC 100 [Min Grade: D]

SOC 489. The Research Experience. 4 Hours.
Capstone includes application of the basic tools of inquiry in sociological research; basic ethical issues in research; forming the research question; hypothesis testing; measurement, sampling, validity and reliability; data gathering techniques; research design; data management; disciplinary standards for writing the research proposal and reporting findings. For students in their last 30 hours.

SOC 489L. The Research Experience Laboratory. 0 Hours.
Laboratory component of the Capstone course, required of all Sociology majors.

SOC 490. Independent Study: Sociology. 1-3 Hours.
Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated. This is a designated service-learning course integrating academic learning, civic learning and meaningful service to the community.
Prerequisites: SOC 100 [Min Grade: D]
**SOC 491. Independent Study and Special Courses in Sociology. 1-3 Hour.** Peer-facilitated, structured dialogues on topics related to social identity in a diverse society. Separate topics on gender, race, religion, sexualities. Mat be repeated for credit but topic may not be repeated.

**Prerequisites:** SOC 100 [Min Grade: D]

**SOC 492. Independent Study and Special Courses in Sociology. 1-3 Hour.** Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered courses on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.

**Prerequisites:** SOC 100 [Min Grade: D]

**SOC 493. Independent Study and Special Courses in Sociology. 1-3 Hour.** Individually designed programs for semi-independent research. Irregularly offered course on research topics in sociology. Varies in content. May be repeated for credit and continued topic with advancement.

**Prerequisites:** SOC 100 [Min Grade: D]

**SOC 494. Independent Research in Sociology. 1-3 Hour.** Individually designed programs for semi-independent research. Irregularly offered course on research topics in sociology. Varies in content. May be repeated for credit and continued topic with advancement.

**Prerequisites:** SOC 100 [Min Grade: D]

**SOC 495. Independent Research in Sociology. 1-3 Hour.** Individually designed programs for semi-independent research or guided readings in areas and subjects otherwise unavailable. Irregularly offered course on special topics in sociology. Varies in content. May be repeated for credit but topic may not be repeated.

**Prerequisites:** SOC 100 [Min Grade: D]

**SOC 498. Sociology Honors Seminar. 3 Hours.** Special seminar for sociology honors students. Prerequisite: admission to the Sociology Honors Program and permission of the Undergraduate Director in Sociology.

**SOC 499. Sociology Honors Thesis. 3 Hours.** Sociology Honors Thesis.

**Prerequisites:** SOC 498 [Min Grade: D]

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**SPA-Spanish Courses**

**Courses**

**SPA 101. Introductory Spanish I. 4 Hours.** This course introduces students to the language by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Spanish is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

**SPA 102. Introductory Spanish II. 4 Hours.** This course continues to develop the language-learning process by focusing on the acquisition of essential elements for basic communication and development of the practical language skills (listening, speaking, reading, and writing) for communicating in daily life situations, as well as provides a broader awareness of and appreciation for the cultures of the countries where Spanish is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

**SPA 108. Introductory Intensive Spanish. 4 Hours.** Accelerated essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Fast-paced review of SPA 101 and SPA 102. Conducted in Spanish. This course meets the Core Curriculum requirements for Area II: Humanities.

**SPA 180. Spanish for Health Professionals. 3 Hours.** Intensive conversation course to expose health professionals to basic vocabulary of Spanish-speaking patients. Focus on practical vocabulary, idiomatic expressions, and cultural patterns of Spanish-speaking patients with little or no proficiency in English. Conducted in Spanish.

**SPA 190. Study Abroad. 6 Hours.** Approved program in a Spanish-speaking country.

**SPA 201. Intermediate Spanish I. 3 Hours.** This course is designed to help students make the transition to natural communication and develop the language-learning process by focusing on the expansion of necessary elements for development of the practical language skills (listening, speaking, reading, and writing) by using cultural and literary readings as well as grammatical exercises. It also provides a broader awareness of and appreciation for the cultures of the countries where Spanish is spoken. This course meets the Core Curriculum requirements for Area II: Humanities.

**SPA 202. Intermediate Spanish II. 3 Hours.** Continuation of SPA 201. Conducted in Spanish. This course meets the Core Curriculum requirements for Area II: Humanities.

**SPA 203. Intermediate Spanish Review. 3 Hours.** This course is designed as a review of the content covered in Introductory Spanish I, Introductory Spanish II, Intermediate Spanish I, and Intermediate Spanish II, while deepening the knowledge and understanding about different grammatical and cultural topics. This course is especially useful for students who have already taken Spanish courses at the intermediate level but whose exposure has been limited or fragmented in recent times. The primary focus of this course is to improve communication skills in Spanish. Therefore, Spanish is the language of instruction.

**Prerequisites:** SPA 201 [Min Grade: D]

**SPA 206. Intermediate Spanish for the Professions. 3 Hours.** Focusing on Spanish-speaking professional culture, this course emphasizes elementary-level conversation acquisition and vocabulary. Conducted in Spanish.

**SPA 210. Conversation and Culture. 3 Hours.** Development of oral expression within the context of contemporary Spanish-speaking cultures.

**SPA 214. Introduction to Translation and Interpretation for the Professions. 3 Hours.** This course introduces students to translation and interpretation techniques, theory and vocabulary related to the professions. The course is conducted in Spanish.

**Prerequisites:** SPA 201 [Min Grade: C]

**SPA 233. Intermediate Spanish Composition and Conversation. 3 Hours.** Foundational composition and conversation, which focuses on correct written and oral expression in Spanish.

**SPA 280. Spanish for Health Professionals. 3 Hours.** Focusing on the Spanish-speaking health-related culture, this course emphasizes intensive conversation, technical reading, and vocabulary acquisition. Conducted in Spanish.
SPA 290. Study Abroad. 1-6 Hour.
Approved program in a Spanish-speaking country.

SPA 299. Special Readings in Spanish. 3 Hours.
Directed readings in intermediate Spanish. Studies select texts of the Spanish-speaking world to increase overall literacy in Spanish.

SPA 300. Advanced Grammar and Composition. 3 Hours.
Designed to improve the use of fundamental grammatical structures of Spanish in diverse contexts. Strong emphasis is given to the development of writing skills that are appropriate for this level. Six hours of SPA courses at the minor level required. Writing is a significant component of this course.

SPA 304. Phonetics and Phonology. 3 Hours.
Course focuses on how the Spanish sound system functions in various regions. Development of pronunciation through oral practice. Conducted in Spanish.

SPA 310. Cultures of the Spanish-Speaking World. 3 Hours.
Historical overview of the heritage of Spain, Latin America, and the Hispanic U.S., with emphasis on social, political, and economic institutions. Conducted in Spanish.

SPA 311. Greatest Hits of Hispanic Literature I. 3 Hours.
This course is an overview of Spanish civilization, culture, literature, and the arts from early to contemporary times. Highlights of best selling works of various authors, with emphasis on fundamental literary concepts and distinctive stylistic features of Spanish discourse, will be reviewed. Conducted in Spanish.

SPA 312. Greatest Hits of Hispanic Literature II. 3 Hours.
This course is an overview of Latin American civilization, culture, literature, and the arts from early to contemporary times. Highlights of best selling works of various authors, with emphasis on fundamental literary concepts and distinctive stylistic features of Spanish discourse, will be reviewed. Conducted in Spanish.

SPA 313. Business Spanish. 3 Hours.
Vocabulary, idioms, protocol, and style characteristic of speaking and writing commercial Spanish. Concentration on writing letters, job descriptions, advertisements, and import-export documents. Conducted in Spanish.

SPA 314. Spanish Translation and Interpretation. 3 Hours.
History, principles, theory, and practice of translation and interpretation, including a systematic study and contrastive exercises in Spanish-English translation and interpretation. A wide variety of conceptual fields with emphasis on vocabulary building. Conducted in Spanish.

SPA 380. Advanced Spanish for Health Profess. 3 Hours.
This advanced course emphasizes intensive Spanish conversation, technical readings and vocabulary pertinent to the medical field. The course focuses on practical vocabulary, idiomatic expressions, medical terminology and cultural patterns of Spanish-speaking patients. The main objectives of the course are: To further develop advanced communicative competence within the medical context of the various regions of the Spanish-speaking world, especially the Hispanic community in Alabama; To foster critical thinking skills, such as problem-identification and solving, decision making, anticipation and planning, patient understanding and achieving communication; To expand on students’ functional vocabulary, in particular, the language of the Hispanic medical world at an advanced level; To promote a better understanding of the Hispanic cultures in general, especially of the Hispanic communities who live in the United States; To further develop oral, listening and reading skills at the advanced levels; To further expand on functions and notions of the language and to apply those to the medical field.

SPA 390. Study Abroad. 1-6 Hour.
Approved program in a Spanish-speaking country.

SPA 399. Special Readings in Spanish. 3 Hours.
Directed readings in Spanish.

SPA 401. Voices of Imperial Spain. 3 Hours.
Culture and civilization of Imperial Spain from the age of the Catholic Monarchs to the close of the Hapsburg Dynasty (1469-1716). Includes a study of the art, historical documents and literature from both the center and periphery of the Empire. Selected works by representative authors will vary according to instructor. Conducted in Spanish.

SPA 402. Voices of Colonial Latin America. 3 Hours.
Culture and civilization of Colonial Latin America from the advent of European dominance to the decades following the Spanish American War (1492-1920). Emphasis on the blending of Spanish, Amerindian, and African cultural forms and their diverse literary expressions. Selected works by representative authors will vary according to instructor. Conducted in Spanish.

SPA 403. Contemporary Spanish Literature and Film. 3 Hours.
Cultural and literary trends of Spain from the transformation of Spanish society in the late nineteenth century to the post-Franco era. Conducted in Spanish.

SPA 404. Medicine and Literature in the Spanish-Speaking World. 3 Hours.
How does literature help us to understand the relationship between medicine, culture, and politics? This class, which seeks answers and related questions, spans the nineteenth and twentieth centuries, charting the role of medical science in literary and cultural texts from six Latin American countries, representing Mexico, Central America, the Caribbean, South America, and the United States. Students will read short stories, poems, novel excerpts, and essays, and they will interpret films and visual art to discuss how science and the humanities supplement one another to create a richer understanding of the human body and its role in the historical development of the Americas.

SPA 405. US Latino Writers. 3 Hours.
Focus on the growing body of literature written by Latinos in the United States. Explores Latino issues and cultural identity through the analysis of their narrative works and experience. Conducted in Spanish.

SPA 407. Indigenous and Indigenist Latin America. 3 Hours.
Cultural and literary forms of Amerindian, Hispanic or mixed-descent writers of Latin America. Focus on the concepts of hybridity, syncretism and mestizaje. Conducted in Spanish.

SPA 409. Spanish-Speaking Nobel Laureates. 3 Hours.
Literary masterpieces of the Spanish-speaking world. Conducted in Spanish.

SPA 411. Cervantes and the Quixote. 3 Hours.
This course will review the major episodes of Don Quixote de La Mancha, one of the most influential works of Spanish and World literature, as well as other selected works written by Cervantes. Emphasis will be given to the author’s unique contribution to the birth of the modern novel and his ingenuity to create stories that transformed all literary genres. These readings will be analyzed within the civilization of the Golden Age of Spain, while exploring a diverse array of topics, such as: love and marriage, religion, race, class, magic, madness, and honor. Conducted in Spanish.
SPA 412. Voices of Contemporary Latin America 1920-Present. 3 Hours.
Cultural and literary trends of Latin America from la nueva narrativa through the Boom and post-Boom periods. Focus on Mexico, Northern Latin America, and the Southern Cone. Conducted in Spanish.

SPA 414. African Hispanophone Writers. 3 Hours.
Cultural and literary forms of African-descended writers in Spanish-speaking world. Focus on African presence in Medieval and Golden Age Spain, Equatorial Guinea, Latin America, or the Caribbean. Conducted in Spanish.

SPA 416. Special Topics in Spanish. 3 Hours.
Seminar on individual authors, specific genres, literary movements, literary discourse/theory, or transatlantic studies. Conducted in Spanish. May be repeated for credit.

SPA 420. Introduction to Hispanic Linguistics. 3 Hours.
Analyze, clarify and expand upon critical aspects of the Spanish language (grammar, vocabulary and phonetics) and related cultural aspects in relation to the second language acquisition processes.

SPA 430. Spanish Sociolinguistics. 3 Hours.
This advanced Spanish linguistics course provides a general overview of sociolinguistics and the pragmatics of oral communication in Spanish. This course studies the Spanish language in its social context. In addition to specific regional linguistic features, social factors such as geography, social class, politics, race, gender, economics, education and history are discussed as determiners of the linguistic landscape.

SPA 440. History of Spanish Language. 3 Hours.
This advanced Spanish linguistics course provides a general overview of the evolution of Spanish language, while relating it to relevant historical events. It pays special attention to diachronic change in order to understand the phenomenon of language variation in a multicultural society.

SPA 450. Spanish Second Language Acquisition. 3 Hours.
This course describes the cognitive, developmental and linguistic processes involved in the acquisition of Spanish as a second language while exploring the basic research techniques used in the field.
Prerequisites: SPA 300 [Min Grade: D]

SPA 460. Globalization in the Hispanic World. 3 Hours.
This course develops a constructivist framework for the study of contemporary globalization issues in the Hispanic world by engaging students in higher-level discussions and critical thinking. Through films, music and literature, and guided research, course explores history, politics, economics and sociocultural issues of the recent Spanish-speaking world. Conducted in Spanish.

SPA 461. Contemporary Spain & Globalization. 3 Hours.
This course develops a constructivist framework for the study of contemporary Spain by engaging students in higher-level discussions and critical thinking. Through films, music and literature, and guided research, course explores recent Spanish history, politics, economics and sociocultural issues. Conducted in Spanish.

SPA 490. Study Abroad: Spanish. 1-6 Hour.
Approved program in a Spanish-speaking country.

SPA 499. Directed Studies. 3 Hours.
Directed readings in Spanish. Conducted in Spanish.

Courses

STH 151. Problem Analysis and Project Planning. 1 Hour.
Students will apply leadership and teamwork skills to analyze a problem or need and develop a plan to address the need. Skills such as developing measurable outcomes and communicating with stakeholders are emphasized.
Prerequisites: STH 150 [Min Grade: C]

STH 199. Introduction to the Scientific Process. 3 Hours.
Fall semester of freshman year for students accepted in the Science and Technology Honors Program. Discussion of basic concepts of scientific methodology will be integrated with analysis of scientific journal articles and use of visual representations to communicate ideas. Students learn about research ongoing at UAB through working with a small team to analyze a scientific publication. The course will culminate in presentation of a poster representing their analysis of the article.

STH 201. Research Approaches. 3 Hours.
Spring semester of freshman year. Hands-on experience with research methods. Students participate in a lab experience such as biotechnology, engineering, molecular genetics, or chemical analysis in which they learn state-of-the-art techniques used in research laboratories.
Prerequisites: STH 199 [Min Grade: C]

STH 250. PrimeTime Leadership. 1-3 Hour.
Carry through leadership or innovation project. Document outcome of the project, report to stakeholder, and prepare public presentation of project.
Prerequisites: STH 151 [Min Grade: C]

STH 299. Interdisciplinary Seminar. 3 Hours.
Fall semester of sophomore year. Team-taught course with faculty from several disciplines addressing how a complex problem is addressed by multiple disciplines. This course will illustrate the synergy achieved by interdisciplinary analysis of problems.
Prerequisites: STH 201 [Min Grade: C] or CH 201 [Min Grade: C]

STH 301. Statistics and Design Overview. 3 Hours.
Spring semester of sophomore year. Introduction to statistics and research design. Covers basics of experimental design and statistical decision theory; indices of central tendency, variability, and association; graphical data presentation; and statistical inference.

STH 302. Statistics/Design Overview Lab. 1 Hour.
Spring semester of sophomore year. Computer laboratory component of STH 301 Statistics and Design Overview. Lab will illustrate principles and provide hands-on experience with statistical methods.

STH 310. Communicating Science. 1-3 Hour.
Students will collaborate with university faculty and staff to produce media products which communicate scientific concepts to the public. Permission of instructor is required.

STH 350. Next Level Leadership. 1-3 Hour.
Oversight of team organized to sustain leadership or innovation project.
Prerequisites: STH 250 [Min Grade: C]

STH 394. Clinical Innovation Seminar. 1-3 Hour.
Students will apply leadership and teamwork skills to analyze a problem or need and develop a plan to address the need. Skills such as developing measurable outcomes and communicating with stakeholders are emphasized.
Prerequisites: STH 150 [Min Grade: C]

STH-Science and Tech Honors Courses
STH 395. Honors Proposal Preparation. 1 Hour.
Seminar for students who are preparing to propose their honors thesis research project and have worked in a lab for a minimum of one semester. Students will present and discuss their research plans and provide input into the proposals of classmates. Honors thesis research proposals will be completed by the end of the semester and defended before a faculty committee. Students must have permission of the program director if they have not completed at least one semester of mentored research prior to taking this course.
Prerequisites: STH 398 [Min Grade: C]

STH 396. Internships/Community Projects/SL. 1-3 Hour.
Experiential learning through individually designed community based or clinically related experiences. Each project will have both experiential and academic components. Permission of program director is required.

STH 397. Independent Study. 1-3 Hour.
Individually designed academic course of study under the direction of a selected faculty member. Permission of the program director is required.

STH 398. Honors Research. 1-6 Hour.
Laboratory research under the supervision of a faculty mentor. Permission of program director is required.

STH 399. Honors Thesis Research. 1-6 Hour.
Undergraduate research for student's honors thesis project under the supervision of a faculty mentor. Students may register for this course after approval of their honors thesis proposal in STH 395.
Prerequisites: STH 395 [Min Grade: C]

STH 400. Honors Thesis Preparation. 1 Hour.
Students will prepare their honors thesis in the format of a journal article during this course and present it to their faculty committee for approval.
Prerequisites: STH 395 [Min Grade: C]

SW-Social Work Courses

Courses

SW 100. Introduction to Social Work. 3 Hours.
The overall goal of this course is to introduce students to the value-based profession of social work. More specifically, the students will have the opportunity to learn about social work's history, mission, professional values and theoretical frameworks (e.g., the systems/ ecological perspective). Furthermore, students will explore areas in generalist practice and the varied roles and responsibilities of the social work profession. Students will be afforded the opportunity to examine their own personal values and how those values influence their views on social welfare problems and issues. SW 100 is required for students majoring or minoring in social work, and is open to others as an elective. Students generally take SW 100 while completing other core requirements.

SW 200. Professional Communication in Social Work. 3 Hours.
An introduction to the techniques of professional writing for social work practitioners. The course is designed to enhance professional and academic writing skills. Students will study how to craft narratives for funding applications, case records, and advocacy materials. Additionally, students will complete a technology module focusing on information technology skills such as word processing, using presentation software, and communication skills with digital and social media.

SW 201. Evidence-Based Social Work Practice. 3 Hours.
An introduction to the concepts and the process involved in evidence-based and empirically based social work practice. It will cover the skills, values, and ethics necessary in this process and field, concentrating on the identification, analysis, and implementation of evidence, as well as empirically based social work practice, which promotes the effectiveness of practice in intervention at the individual, family/group, organization and community levels.

SW 203. Social Welfare History. 3 Hours.
A history of U.S. social welfare and its relationship and impact on current social work practice. Additionally, the course explores, within a social justice context, the historical impact of social welfare policies on the well-being of individuals and communities.

SW 207. Racism, Sexism and Other Isms. 3 Hours.
Ethical dilemmas in relating to disadvantaged groups such as minorities, aged, women, gays and lesbians, and disabled persons.

SW 208. Disaster Preparedness. 3 Hours.
A multi-disciplinary perspective on aspects of disaster preparedness and response to natural and man-made disasters. Provides review of current recommendations on disaster preparedness, local, state and federal response networks and organizations, and psychosocial aspects of response including sheltering, crisis intervention and psychological first aid.

SW 222. Social Work Values Lab. 4 Hours.
An introduction to the helping professions with on-site service learning opportunities in local social service agencies. A didactic classroom and service learning lab that integrates field observation with self-awareness. At the successful conclusion of this course, students may apply for social work major status.(SL).

SW 302. Social Welfare Policy Analysis. 3 Hours.
Introduces analytical frameworks with which to evaluate contemporary U.S. social welfare policy; it is designed for students with basic knowledge of the history of social welfare. The course also examines the relationship between current policy and the practice of social work today. Additionally explored is the real-world impact of current policy on the well-being of individuals and communities, within a social justice context.
Prerequisites: SW 203 [Min Grade: C]

SW 305. Social Work in Perinatal Settings. 3 Hours.
Covers issues facing families in perinatal settings, providing an overview of the social work role from a generalist practice model. This course covers practice issues related to services to families during pregnancy, delivery and childbirth, and the neonatal period. Topics will be covered from a multidisciplinary perspective, highlighting the impact of culture and diversity during specified times of life transition, including medical and psychosocial issues. Social Work interventions will be discussed using an evidence-based framework.

SW 313. Human Behavior and The Social Environment I. 3 Hours.
The first of two required courses in Human Behavior and the Social Environment, this course is designed to prepare students to understand human development across the different levels of social systems. The course explores theories, concepts, and knowledge from conception through early adolescence. Content also includes discussion of how factors such as social class, sexual orientation, gender, physical ability, age, race, ethnicity, and culture influence human development and behavior.
SW 314. Human Behavior in the Social Environment II. 3 Hours.
The second of two required courses in Human Behavior and the Social
Environment, is designed to prepare students to understand human
behavior across the life cycle. The course explores theories, concepts,
and knowledge from early adolescence through death. Students acquire
knowledge and understanding of human beings as individuals, as
members of families, and other social groupings, and as members of
organizations, communities, and larger societal and cultural collectives.
Content includes discussion of how factors such as social class, sexual
orientation, gender, physical ability, age, race, ethnicity and culture
influence human development and behavior.
Prerequisites: SW 313 [Min Grade: C]

SW 320. Introduction to Research Methods. 3 Hours.
The goal of this course is to introduce students to research theory,
methods and tools; and to expand their appreciation of the quintessential
role of research in guiding practice. Qualitative and Quantitative research
methodologies, sampling, data collection, and data analysis, as well
as skills in critiquing research studies will be taught in the context of
ethical standards governing evaluation and research as set forth in the
NASW Code of Ethics. This course is a part of the core curriculum of
the social work program. Quantitative literacy is a significant component
of this course. Honors students will have additional research related
assignments.

SW 321. Statistics for Social Work Research. 3 Hours.
This course provides the context for understanding the analysis and
interpretation of quantitative data. Descriptive and inferential statistics
will be covered, along with hypothesis testing and statistical significance.
Quantitative Literacy is a significant component of this course.
Prerequisites: SW 320 [Min Grade: C]

SW 322. Social Work Practice I. 4 Hours.
Generalist model application of social work with concentration on
the micro-level that provides the student with the opportunity to gain
the knowledge, skills, understanding and competence needed for
interventions at the beginning professional level. This course includes a
service learning lab that allows students to practice a solution-focused
relationship with emphasis on self-awareness, cultural-awareness, active
listening, interviewing, and recording skills at all systems levels.(SL).
Prerequisites: SW 222 [Min Grade: C]

Examines current trends in service delivery and relevant policy issues
concerning the health and well being of children.

SW 422. Social Work Practice II. 4 Hours.
Generalist model application of social work practice at the mezzo and
macro levels. Students will look at resource/case management, alliance
creation, community change, and social activism and advocacy. This
course includes a service learning lab that allows students to practice
working with groups, communities and organizations, using ethical
Prerequisites: SW 322 [Min Grade: C]

SW 428. Medical and Mental Health Social Work. 3 Hours.
An introduction to and overview of working with people called "patients"
in medical and mental health. These settings include medical hospitals,
clinics, public health agencies, non-profit organizations, and mental
health inpatient and outpatient facilities.

SW 454. Working with Substance Abusers. 3 Hours.
Examines the impact of substance abuse on individuals, families, groups,
organizations, institutions and communities. This course is recommended
for students who want to expand their knowledge and sensitivity for
understanding the special problems that substance abuse brings to
society. Course content includes identification of the various drugs of
abuse, major theories of addiction, and examination of the psychological
and physiological consequences of substance abuse.

SW 478. Special Topics in Social Work. 3 Hours.
Study of current issues in social work.

SW 490. Practicum in Social Work/SL. 9 Hours.
Integration of social work knowledge and values with application of
professional helping skills. Students participate in a full-time placement
in approved social service agencies under supervision of master's-level
social workers.
Prerequisites: SW 494 [Min Grade: C](Can be taken Concurrently)

SW 494. Practicum Seminar. 3 Hours.
This capstone course in Social Work is an integrative seminar that must
be taken concurrently with SW 490 (Practicum in Social Work). The
seminar reviews basic social work tools that will enhance the students'
work with client systems by providing opportunities to increase their
knowledge of the social work profession, practice collegiate collaboration
for the benefit of clients, and engage in strategies for problem-solving.
The seminar also provides a forum to review students' practicum
experiences, discuss social work practice issues, and reflect on the
relationship of these experiences to their overall social work education
program. Honors Students will be required to complete an additional 100
hours involved in community based research.
Prerequisites: SW 490 [Min Grade: P](Can be taken Concurrently)

SW 496. Social Work Honors Seminar. 3 Hours.
This seminar is designed to enhance students' problem solving skills,
critical and independent thinking, and application of research/evidence-
based practice. Faculty mentors will assist students in exploring social
work practice interest areas and will provide preparation for graduate
study and/or professional careers in Social Work. This course is required
for all Social Work Honors students.

SW 498. Independent Study I. 1 Hour.
This seminar is designed to enhance students' problem solving skills,
critical and independent thinking, and application of research/evidence-
based practice. Faculty mentors will assist students in exploring social
work practice interest areas and will provide preparation for graduate
study and/or professional careers in Social Work. This independent study
is required for Social Work Honors students.

SW 499. Independent Study II. 1-3 Hour.
Research under direction of faculty member.

THR-Theatre Courses

Courses

THR 100. Introduction to the Theatre. 3 Hours.
Understanding the theatre experience through class lectures, reading
and writing assignments, demonstrations, discussions, and viewing live
evening performances. Writing is a significant component of this course.
This course meets the Core Curriculum requirements for Area II: Fine
Arts.

THR 102. Introduction to Cinema. 3 Hours.
A survey of the world's greatest films and filmmakers emphasizing
historical context and development of the art form over time.
THR 105. Introduction to Dance. 3 Hours.
Understanding the dance experience through class lectures, demonstrations, discussions, and viewing performances.

THR 106. Jazz I. 2 Hours.
Basic movement and combinations based on modern jazz, Broadway/theatrical styles, and popular jazz forms. May be repeated 2 times for a total of 6 hours.

THR 107. Tap I. 2 Hours.
Basic rhythmic studies and combinations based on Broadway/theatrical tap styles. May be repeated 2 times for a total of 6 hours.

THR 108. Ballet I. 2 Hours.
Fundamentals of classic ballet technique with emphasis on analysis and proper execution.

THR 124. Theatre Technology: Scenery and Lighting. 3 Hours.
Scenic construction techniques and execution of stage lighting via lectures, demonstrations, and practical application. Emphasis in tools, materials and procedure. 40 lab hours outside of scheduled classes required.

THR 125. Theatre Technology: Costumes and Makeup. 3 Hours.
Fundamentals of costume construction, finishing and manipulation. Basic stage makeup techniques. Lectures, demonstrations and practical experience. 30 lab hours outside of scheduled classes required.

THR 126. Film Technology: Cinematography, Audio and Editing. 3 Hours.
Fundamentals of film technology, camera operations, lighting, audio, editing and an introduction to the fundamentals of composing basic camera shots.

THR 154. Beginning Acting. 3 Hours.
Introduction to the basic principles of acting. Exercises in talking and listening, actions and objectives, subtext and internal monologue.

THR 160. Theatre Cornerstone. 1 Hour.
The objective of this course is to introduce incoming freshmen to the professional performing arts industry and the UAB Department of Theatre community. Its primary objective is to prepare students for a successful collegiate career in the study and practice of theatre. Course required for majors in the first fall semester of residency.

THR 200. Plays on Film. 3 Hours.
Understanding major genres of drama through lecture, analysis, reading scripts, and viewing performances. This course meets the Core Curriculum requirements for Area II: Fine Arts.

THR 202. Voice and Movement for the Actor I. 3 Hours.
This course seeks to integrate voice and body in order to develop a free, flexible, and dynamic voice and body for the actor. Students will explore body work in order to develop kinesthetic awareness in the centering, grounding, and release of tension which are essential to the freeing of the voice. Students will explore expanded field of awareness as well as breath release, support for sound, resonance, embodying sounds, vocal hygiene, and vocal dynamics with applications to speaking text.

THR 203. Voice and Movement for the Actor II. 3 Hours.
A continuation of Voice and Movement for the Actor I with special emphasis on voice/body integration, field of awareness, breath support, range, dynamics, phrasing, tempo-rhythms. Students will explore how to use the voice working with a variety of dramatic texts. Additionally, students will explore principles of the Alexander Technique. May be repeated two times with permission of instructor.

Prerequisites: THR 202 [Min Grade: C]

THR 204. Beginning Production Practicum. 1 Hour.
Practical directed production experience in conjunction with actual production. THR 204 and THR 404 may be repeated for a combined total of 8 hours.

THR 205. Beginning Performance Practicum. 1 Hour.
Practical directed performance experience in conjunction with actual production. Requires audition. THR 205 and THR 405 may be repeated for a combined total of 8 hours.

THR 206. Jazz II. 2 Hours.
Intermediate exploration of jazz idiom, musicality, and technique, with emphasis on theatrical and choreographic styles.

Prerequisites: THR 106 [Min Grade: C]

THR 207. Tap II. 2 Hours.
Advanced exploration of tap genre, with emphasis on musicality and technique.

Prerequisites: THR 107 [Min Grade: C]

THR 208. Ballet II. 2 Hours.
Continued study of classic ballet technique.

Prerequisites: THR 108 [Min Grade: C]

THR 210. Introduction to Theatrical Design. 3 Hours.
Study and application of elements of design in theatre setting. Roles of scenic, lighting, and costume designers and their collaborative relationship with director.

THR 215. Playwriting I. 3 Hours.
Study and practicum in playwriting with emphasis on creating works for production and/or sale. Permission of instructor required. Writing is a significant component of this course.

Prerequisites: EH 101 [Min Grade: C]

THR 216. Screenwriting I. 3 Hours.
Study and practicum in writing scripts for TV and film, with emphasis on creating works for production and/or sale.

Prerequisites: EH 101 [Min Grade: C]

THR 226. Drawing and Rendering for the Theatre. 3 Hours.
Emphasis on rendering styles and drawing skills used in developing costume, scenic, and lighting designs. Studies in color theory, basic perspective, illustrating light source and figure drawing. Work in a variety of media and styles.

Prerequisites: THR 210 [Min Grade: C]

THR 230. Stage Management. 3 Hours.
The role and responsibilities of the stage manager for live theatrical events. Emphasis on managerial theory and practice.

THR 235. Analysis of Dramatic Literature. 3 Hours.
An examination of seminal dramatic works from the Ancient Greeks to the present day. Students will apply structural analysis to these works, focusing on their dramatic action, character development and language, in order to mine the ideas contained in them and determine how these ideas might be articulated to audiences in a live stage production.

Prerequisites: EH 101 [Min Grade: C]

THR 254. Intermediate Acting. 3 Hours.
Second part of a three part sequence. This course explores and applies the techniques of the acting process as prescribed in Constantin Stanislavski’s text, AN ACTOR PREPARES: given circumstances, character objectives, physical objectives, internal and external characterization techniques.

Prerequisites: THR 154 [Min Grade: C]
THR 258. Musical Theatre Performance I. 3 Hours.
This course offers an exploration of musical theatre performance by focusing on vocal production and historical style. Emphasis will be placed on specificity of performance, both vocally and physically, so that students will be able to accurately and successfully perform in different styles of musical theatre from early musicals through the 1960s. This course will also look at the relationship of the written vocal score to performance and the historical context of each piece.
Prerequisites: THR 154 [Min Grade: C]

THR 259. Musical Theatre Performance II. 3 Hours.
This course continues an exploration of musical theatre performance by focusing on vocal production and historical style. Emphasis will be placed on specificity of performance, both vocally and physically, so that students will be able to accurately and successfully perform in different styles of musical theatre from the 1970s through the present. This course will also look at the relationship of the written vocal score to performance and the historical context of each piece.
Prerequisites: THR 258 [Min Grade: C]

THR 261. Musical Theatre Showcase I. 1 Hour.
This course focuses on rehearsal and performance techniques through practical exploration of ensemble songs from assigned musical theatre selections leading to proficiency in performance skills and preparation for graduation and the profession.
Prerequisites: THR 259 [Min Grade: C]

THR 279. Cinematography. 3 Hours.
The theory and practice of camera work for shooting narrative and documentary films.
Prerequisites: THR 126 [Min Grade: C] or THR 277 [Min Grade: C]

THR 300. Exploring the African-American Creative Experience. 3 Hours.
Contributions of African Americans to theatre and dance. Creative process and application of creative process through live performance.
Prerequisites: THR 100 [Min Grade: C] or THR 200 [Min Grade: C] or THR 235 [Min Grade: C]

THR 303. History of Film I: Origins to 1960. 3 Hours.
From the first silent movies to the development of the modern color sound movie of Hollywood in the fifties: comparison and contrast of the views of major film makers of the sixty years of the 20th Century.
Prerequisites: EH 101 [Min Grade: C]

THR 304. History of Film II: 1960 to Present. 3 Hours.
From the modern color sound movie of the fifties and the Nouvelle Vague to the latest movies produced around the globe: comparison and contrast of the views of filmmakers since the 1960s.
Prerequisites: THR 303 [Min Grade: C]

THR 306. Jazz III. 2 Hours.
Advanced study in Jazz technique and musicality with complex combinations and understanding of theatrical style.
Prerequisites: THR 206 [Min Grade: C]

THR 315. Playwriting II. 3 Hours.
Advanced Study and practicum in playwriting with emphasis on creating works for production and/or publication. Writing is a significant component of this course.
Prerequisites: THR 215 [Min Grade: C]

THR 316. Screenwriting II. 3 Hours.
Advanced study and practicum in writing feature-length screenplays, with emphasis on creating works for production, sale, and/or publication. May be repeated 1 time for a total of 6 hours.
Prerequisites: THR 216 [Min Grade: C]

THR 318. Stage Combat. 3 Hours.
Fighting for the stage and screen.

THR 323. Lighting Design. 3 Hours.
Exploration of the theory and practice of lighting design for live performance.
Prerequisites: THR 124 [Min Grade: C] and THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 325. Theatre Sound Design and Technology. 3 Hours.
Principles and practice of designing, engineering and propagating audio for live theatrical productions.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 326. Scenic Design. 3 Hours.
Exploration of the theory and practice of scene design for live performance.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 327. Costume Design. 3 Hours.
Exploration of the theory and practice of costume design for live performance. Basic principles of design, characterization and rendering technique.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 343. Experimental Performance. 3 Hours.
This course explores alternative approaches to creating performance. In addition, the course focuses on the psychology of the actor and examines techniques to reduce performance anxiety. The work culminates in the creation of a solo piece.
Prerequisites: THR 154 [Min Grade: C]

THR 350. Costume History and Period Style for the Theatre. 3 Hours.
A selective study of clothing, architecture, furniture and decorative arts of different historical eras, with emphasis on popular theatrical eras and styles. Includes an examination of the societal, cultural, and economic influences which shape historical style.
Prerequisites: EH 102 [Min Grade: C]

THR 355. Advanced Acting. 3 Hours.
Advanced level class in actor training. Students will be introduced to specific period styles acting techniques for Shakespearean drama, restoration drama, and emerging changes for performance techniques in the plays of Henrik Ibsen and Anton Chekhov.
Prerequisites: THR 202 [Min Grade: C] and THR 254 [Min Grade: C]

THR 360. Internship. 3 Hours.
Experience in non-academic theatre under supervision of professional staff. Interns may work in single area of specialty or in rotation throughout host theatre operation and may contract for single term or academic year.

THR 361. Musical Theatre Showcase II. 1 Hour.
This course focuses on rehearsal and performance techniques through practical exploration of duet scenes and songs from assigned musical theatre selections leading to proficiency in performance skills and preparation for graduation and the profession.
Prerequisites: THR 261 [Min Grade: C]

THR 365. Directing I. 3 Hours.
Basic principles of staging, picturization, composition, focus, and movement. Text analysis, directorial scoring, and actor/director dynamics.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]

THR 374. Video Editing. 3 Hours.
Digital video and audio editing.
Prerequisites: THR 126 [Min Grade: C]
THR 375. Beginning Narrative Filmmaking. 6 Hours.
Study and practicum in producing short narrative films. Students will gain experience in screenwriting, scouting locations, designing shots, drawing storyboards, creating shooting schedules, holding auditions, casting, and editing.
Prerequisites: THR 126 [Min Grade: C] and THR 216 [Min Grade: C]

THR 376. Intermediate Narrative Filmmaking. 3 Hours.
Expand upon the experience gained in Beginning Filmmaking by working as part of a crew (industry model) to write, cast, shoot and edit an original narrative film.
Prerequisites: THR 316 [Min Grade: C] and THR 375 [Min Grade: C]

THR 377. Acting for the Camera. 3 Hours.
A study of acting techniques for film and television.

THR 378. Film Directing. 3 Hours.
Students will study the films and directing techniques of the great film directors from around the world. They will then apply those directing techniques as they design shots and work with actors in filmmaking exercises. Activities in this course are divided between film analysis and exercises in a workshop format.
Prerequisites: THR 375 [Min Grade: C]

THR 401. NYC Showcase. 1 Hour.
Preparation of songs, monologues and scenes for presentation to casting directors and agents. Students enrolled in this course will be required to cover costs associated with travel to New York City.

THR 404. Advanced Production Practicum. 1-2 Hour.
Practical directed production experience in conjunction with actual production. Prior to taking THR 404, student must have completed the 3 required practicum credits. THR 204 and THR 404 may be repeated for a combined total of 8 credits.

THR 405. Advanced Performance Practicum. 1 Hour.
Practical directed performance experience in conjunction with actual production. Requires audition. Prior to taking THR 405, student must have completed the 3 required practicum credits. THR 205 and THR 405 may be repeated for a combined total of 8 hours.

THR 420. Teaching Theatre in the Secondary School. 3 Hours.
Course provides the student with a complete understanding and utilization of the knowledge and skills needed to teach theatre at the secondary school level.

THR 425. Pattern Drafting. 3 Hours.
Students will learn garment terms, their application, and flat pattern techniques for garment development. The course requires 20 lab hours, in addition to regular class meetings.
Prerequisites: THR 125 [Min Grade: B]

THR 430. Auditioning. 3 Hours.
This course prepares the actor for graduate school and professional auditions. A working method is explored for the preparation of classical and contemporary audition pieces.
Prerequisites: THR 154 [Min Grade: C] and THR 202 [Min Grade: C]

THR 435. Dialects. 3 Hours.
Students will develop the knowledge and skills to describe and recreate oral postures, placement, and rhythms of various stage dialects.
Prerequisites: THR 202 [Min Grade: C]

THR 450. Costume History and Period Style for the Theatre. 3 Hours.
A selective study of clothing, architecture, furniture and decorative arts of different historical eras, with emphasis on popular theatrical eras and styles. Includes an examination of the societal, cultural, and economic influences which shape historical style.
Prerequisites: EH 102 [Min Grade: C]

THR 451. Musical Theatre History and Script Analysis. 3 Hours.
Exploration of the origins and development of musical theatre, from the mid-18th century to the present day. Students will develop a critical sensitivity to the medium and will learn to analyze the music, plots, characters and situations of musical theatre.
Prerequisites: EH 102 [Min Grade: C]

THR 455. Advanced Studio in Performance. 3 Hours.
Advanced exploration of special topics related to acting through performance including but not restricted to period styles, dialects, ensemble work, solo performance, or any other specialized genre.
Prerequisites: THR 154 [Min Grade: C]

THR 461. Musical Theatre Showcase III. 1 Hour.
This course focuses on rehearsal and performance techniques through practical exploration of scenes and solo songs from assigned musical theatre selections leading to proficiency in performance skills and preparation for graduation and the profession.
Prerequisites: THR 361 [Min Grade: C]

THR 462. Special Workshop. 1-3 Hour.
Specialized subjects taught as opportunity allows.

THR 465. Directing II. 3 Hours.
Preparing performances. Director/actor communication in rehearsal, rehearsal motifs, rehearsal organization, and finishing production. Actual direction of one-act play for laboratory performance.
Prerequisites: THR 365 [Min Grade: C]

THR 470. Individual Project in Design and Production. 1-3 Hour.
Directed individual study in topics related to theatrical design and production. Individual Project in Design: The design of costumes, scenery, lighting, audio, or makeup for a mainstage production under the supervision of a faculty mentor. Individual Project in Production: Assume the position and execute the responsibilities of a specific production position, such as a cutter/draper or technical director, while under the supervision of a faculty mentor. Proposals for individual projects must be approved prior to registration.

THR 471. Advanced Studio in Scenery. 3 Hours.
Advanced exploration of special topics related to scenic design and production. May be repeated for credit.
Prerequisites: THR 326 [Min Grade: C]

THR 472. Advanced Studio in Costumes. 3 Hours.
Advanced exploration of special topics related to costume design and production. May be repeated for credit.
Prerequisites: THR 327 [Min Grade: C]

THR 473. Advanced Studio in Lighting. 3 Hours.
Advanced exploration of special topics related to lighting design and production. May be repeated for credit.
Prerequisites: THR 323 [Min Grade: C]

THR 474. Advanced Studio in Audio. 3 Hours.
Advanced exploration of special topics related to audio design and production. May be repeated for credit.
Prerequisites: THR 210 [Min Grade: C] and THR 235 [Min Grade: C]
THR 475. Advanced Narrative Filmmaking. 3 Hours.
Expand upon the experience gained in Intermediate Filmmaking by working as part of a crew (industry model) to write, cast, shoot and edit an original narrative film.
Prerequisites: THR 376 [Min Grade: C]

THR 476. Audio for Film: Recording and Mixing. 3 Hours.
An opportunity for students to write, produce and/or direct an original 10-20 minute film as an individual project under the mentorship of a faculty member.
Prerequisites: THR 277 [Min Grade: C]

THR 478. Music Video Production. 3 Hours.
Designing, shooting, and editing a music video using film industry crew protocol.
Prerequisites: THR 376 [Min Grade: C]

THR 480. Individual Project in Film. 1-3 Hour.
An opportunity for students to write, produce and/or direct an original 10-20 minute film as an independent project.

THR 481. Theatre History to 1860. 3 Hours.
An exploration of Western theatre from 500 B.C. to 1860 by focusing on the Classical, Medieval, Renaissance, Restoration, and Enlightenment periods. The original historical and performance contexts of plays written during the period will be considered to illuminate the cultural and political role of theatre through the ages. The class format includes lectures, class discussions, group exercises, and creative and research projects.
Prerequisites: THR 235 [Min Grade: C]

THR 482. Theatre History from 1860 to Present. 3 Hours.
An exploration of nineteenth and twentieth century Western theatre, focusing on Romanticism, Realism and Non-Realism. Also introduces students to the most popular forms of traditional non-Western theatre to explain their influence on the European avant-garde. Emphasis will be placed on seminal plays, theatre spaces and design, acting techniques, and directing styles. The class format includes lectures, class discussions, group exercises, and creative and research projects.
Prerequisites: THR 235 [Min Grade: C]

THR 483. Individual Studies in Film. 1-3 Hour.
An opportunity for students to study a specific aspect of film production or history leading to the presentation of research.

THR 491. Theatre Capstone. 2 Hours.
An exploration of the role of theatre and the theatre artist in the macrocosm of the world. Synthesis and assessment of the academic theatre experience through writing assignments, class discussion, and oral presentations focused on career preparation and planning, the role of theatre in society, defining a personal aesthetic and collaboration. Required for graduation in last year of residency.

THR 492. Film Internship/Capstone. 3 Hours.
A synthesis experience for students as they apply what they have learned to a real-life, work environment. When possible, students are expected to intern with a Los Angeles film or television production company.
Prerequisites: THR 475 [Min Grade: C]

THR 493. Musical Theatre Capstone. 2 Hours.
An exploration of the business of musical theatre including information about contracts, unions, agents/managers, casting directors, taxes and other life strategies in order to develop a specific plan for the next steps after graduation. Students prepare themselves for professional careers by developing such items as resumes, audition material, headshots and websites.

THR 496. Honors Project. 3 Hours.
Admission into the departmental honors program.

THR 499. Individual Studies. 1-3 Hour.
Directed individual study in theatre topics unrelated to design and production. Proposals for individual projects must be approved prior to registration. May be repeated for credit.

UASC - University Academic Success Center

Courses

UASC 101. Exploring UAB. 1 Hour.
The purpose of this course is to assist students in their transition to UAB by providing essential navigational tools and resources to encourage student engagement and a strong persistence towards graduation. These strategies include intentional major, degree, and career outlook planning; using time more efficiently; developing academic skills in reading, note taking, studying, and test taking; enhancing critical thinking and problem solving; developing networking and communication skills; and encouraging campus involvement.

UASC 105. Keys to Academic Success. 2 Hours.
The purpose of this course is to assist students in applying strategies for college success. These strategies include using technology and library resources for processing and retrieving information; planning and using time more efficiently; developing academic skills in reading, note taking, studying, and test taking; enhancing critical thinking and problem solving; developing networking and communication skills; encouraging campus involvement; and incorporating wellness habits.

UASC 150. Career Planning and Management. 3 Hours.
Understanding aptitudes, abilities, and interests as related to career alternatives. Group and individual experiences aid self-direction in planning and career management. Values, preferences, skills, and personal resources matched with educational and employment opportunities using a variety of experiences and resources.

The purpose of this course is to provide students with both an introduction and understanding of the necessary requirements and skills needed in preparation for medical school. In addition, students will explore the foundations of medicine and health and actively participate in service related activities to understand the reciprocal relationship between theory and practice. Furthermore, students will use said information to formulate group presentations for future research, advocacy, or continued service.

UNIV-University Courses

Courses

UNIV 200. Job Search Essentials. 1 Hour.
Want a job upon graduation? This course teaches the basics of a job search, leading you through assignments and projects necessary to help you gain the competitive edge needed to land a job upon graduation and continue to advance in your career.
UNIV 300. Career Map: Navigating for Success. 3 Hours.
Achieve career success by building key skills sought by employers and graduate school admission committees today. This course provides an interactive exploration into setting career goals and arriving successfully at your destination. Gain tips and insights from executives in your field into professional development, resume/interviewing, communications, team building, networking (live and virtual), and other key areas necessary to present yourself as the applicant of choice. Master these steps and begin to map your journey toward career success.

WS-Womens Studies Courses

Courses

WS 100. Introduction to Women's and Gender Studies. 3 Hours.
Interdisciplinary study of roles of women in society through social, political, economic, philosophical, historical, and biological perspectives. Required for Women’s and Gender Studies Minor. This course meets the Core Curriculum requirements for Area IV: Social and Behavioral Sciences.

WS 280. Special Topics in Women’s and Gender Studies. 3 Hours.
Subjects of special interest, such as women and religion, women and war and theories of women’s studies. Varies in content depending upon topic. Students may enroll under these numbers multiple times but topic may not be repeated.

WS 357. Anthropology of Gender. 3 Hours.
Roles of women, men, and other genders from a cross-cultural perspective; includes bio-cultural approaches to sex and gender and changing gender roles over time. Course involves substantial writing component in essay examinations and research papers. Writing is a significant component of this course.

WS 380. Special Topics: Women’s and Gender Studies. 3 Hours.
Interdisciplinary study of gender in society through social, political, economic, philosophical, historical, and biological perspectives. Required for Women’s and Gender Studies Minor.

WS 400. Theory and Practice of Women’s and Gender Studies: Senior Seminar. 3 Hours.
Everyday applications of feminist and queer theories. Required for the minor.

Prerequisites: WS 100 [Min Grade: D]

WS 480. Special Topics in Women’s and Gender Studies. 1-3 Hour.
Subjects of special interest, such as women and religion, women and war, and theories of women’s studies. Varies in content depending upon topic. Students may enroll under these numbers multiple times but topic may not be repeated.

WS 490. Directed Readings in Women’s and Gender Studies. 1-3 Hour.
Independent study with faculty guidance of selected gender-related issues.

WS 491. Directed Studies in Women’s and Gender Studies. 1-3 Hour.
Independent research with faculty guidance on selected gender-related issues.

WS 495. Internship in Women’s and Gender Studies. 1-3 Hour.
Experience in community agency working with women or gender issues. Course requirements dependent upon number of credits student wishes to take.

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Addenda

New courses approved for Core Curriculum

(Approved 6/6/16)
**Area I Written Composition:**
EH 106/ EH 096L is approved to fulfill the requirements of EH 101.
EH 107/EH 097L is approved to fulfill the requirements of EH 102.

**Area II Humanities and Fine Arts:**
POR 101 and POR 102 were approved for inclusion in Area II.

**Area III Natural Science and Mathematics:**
BY 108/BY 109 is approved as Area III laboratory science course.
MA 225 is approved for Area III mathematics.
MA 226 is approved for Area III mathematics.

**New Hill Student Center Occupants**
CAMPUS RESTAURANTS & FLAVOURS CATERING (http://www.uab.edu/dining)
Room 130 | 205-934-3354
CAMPUS VISIT CENTER (http://www.uab.edu/visit)
Room 201 | 205-934-9098
CAREER & PROFESSIONAL DEVELOPMENT (http://www.uab.edu/careerservices)
Room 307 | 205-934-4324
DISABILITY SUPPORT SERVICES (http://www.uab.edu/dss)
Room TBD | 205-934-4324
HILL STUDENT CENTER OPERATIONS (http://www.uab.edu/studentaffairs/studentcenter/contact)
Room 225 | 205-996-0404
INFORMATION DESK (http://www.uab.edu/studentaffairs/studentcenter/departments)
Room 215 | 205-996-8000
ONE STOP STUDENT SERVICES (http://www.uab.edu/onestop)
Room 103 | 205-934-4300
STUDENT ADVOCACY, RIGHTS & CONDUCT (http://www.uab.edu/sarc)
Room 303 | 205-975-9509
STUDENT INVOLVEMENT & LEADERSHIP (http://www.uab.edu/studentlife)
Room 230 | 205-934-8020
STUDENT MEDIA (http://www.uab.edu/studentmedia)
Room 130 | 205-934-3354
STUDENT MULTICULTURAL & DIVERSITY PROGRAMS (http://www.uab.edu/diversity)
Room 311 | 205-996-8020
TECH STORE (http://www.uab.edu/studentaffairs/studentcenter/departments)
Room 135 | 205-996-0404
TICKET OFFICE (http://www.uab.edu/tickets)
Room 103 | 205-934-8001
TRIO ACADEMIC SERVICES (http://www.uab.edu/trio)
Room 315 | 205-996-0404
UNIVERSITY BOOKSTORE (http://uab.bncollege.com)
Room 104 & 207 | 205-996-2665
VETERAN SERVICES (http://www.uab.edu/veterans)
Room 313 | 205-996-2665
VICE PRESIDENT FOR STUDENT AFFAIRS (http://www.uab.edu/studentaffairs/studentcenter/departments)
Room 401 | 205-996-0404
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