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Welcome to the UAB Graduate School

The UAB Graduate School seeks to nurture skills that transcend disciplinary boundaries, preparing graduate students to participate successfully in professional and academic arenas. With coordinated and interdisciplinary degree programs available, the UAB Graduate School offers students an opportunity to tailor their educational experience to their own career objective. The Graduate School administers doctoral programs, post-masters education specialist programs, and master’s level programs, with additional programs planned for the future.

Graduate students, you should expect many challenges as they build upon previous educational experiences in new and exciting ways. Graduate education has a distinctly different character from that of undergraduate education. Students explore their chosen area of study in greater depth, and are also challenged to reach across boundaries and address larger intellectual issues. There will be greater emphasis on originality and the creation of new knowledge.

The Graduate Catalog outlines all of the policies and procedures pertaining to academic performance, degree progress, academic and non-academic conduct, and student responsibilities. UAB graduate students are expected to be familiar with these policies and to abide by them. Failure to do so may impede a student’s progress or may result in disciplinary action and, in some cases, dismissal. In addition to Graduate School policies, students are responsible for knowing and abiding by all UAB Polices and Procedures which can be located in the UAB Policies and Procedures Library at www.sppublic.ad.uab.edu/policies/Pages/default.aspx

The Graduate Council

The Graduate Council is comprised of all graduate program directors. The Graduate Council Advisory Committee is a subset of these program directors who have been designated by their school deans to serve in an advisory capacity to the Graduate School Dean. The Advisory Committee reviews academic requirements, policies, procedures, and Graduate School activities. The committee recommends and approves appropriate changes. Changes in academic requirements and related policies require a majority vote of the Advisory Committee.

The Graduate Council Advisory Committee, through consultation with the Dean, is responsible for developing academic requirements and describing these requirements through appropriate policies. The Dean, through consultation with the Graduate Council, is responsible for developing procedures that effectively enforce academic requirements and implement policies. The Graduate Council Advisory Committee has developed policies and procedures to ensure that high standards for graduate study are maintained at UAB. These policies and procedures are available at the Graduate School’s Web site (http://www.uab.edu/graduate/component/content/article/23-students/catalog/72-policies-and-procedures).

The Graduate Faculty

Graduate faculty membership may be granted by the Dean of the Graduate School to faculty members who demonstrate a high level of competence in teaching and scholarship. Graduate faculty are nominated by the faculty member’s department chair and/or graduate program director, and membership is required of all individuals teaching courses for graduate credit and of members of graduate study committees. A complete listing of the graduate faculty can be found on the Graduate School Web site (http://www.uab.edu/graduate/gradfacclist).

Graduate School Professional Development Program

Through its Professional Development Program, the Graduate School offers courses, workshops and seminars designed to help graduate students, postdoctoral fellows, and other academic professionals develop communication and other career-enhancing skills. Current offerings include credit-bearing courses and workshops, as well as free seminars, in writing, funding, presentations, and teaching at the college level. More information and schedules are available at the Professional Development Program’s Web site (www.uab.edu/pdp).

Graduate School Deadlines

All Graduate School deadlines, as indicated on the calendar or in explanation of policies and procedures, unless otherwise stated, are final by 5:00 p.m. on the date specified, by which time all transactions must be completed and documents received in the Graduate School. Transactions and documents requiring the action or approval of graduate advisors, committee members, instructors, department chairs, academic deans, or others prior to receipt by the Graduate School should be initiated by the appropriate person (student, instructor, graduate advisor, or other) sufficiently in advance of the Graduate School deadline for the required actions to be taken and approvals made or declined before the deadline. Deadline dates are available online at http://www.uab.edu/graduate/deadline-dates.

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.

General Information

Role Statement

UAB’s graduate 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, 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. the Carnegie Foundation for the Advancement of Teaching has named the University of Alabama at Birmingham to its list of colleges and universities to receive its 2015 Community Engagement Classification. UAB is one of 51 universities nationally and the only college in Alabama to be classified for high research activity and community engagement.

As the senior public doctoral-level institution in the state’s major urban area, UAB is 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 local and unique 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 has a flourishing arts program. As many as 30 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 a state-of-the-art facility featuring 4 formal performance spaces: the 1,300-seat Jemison Concert Hall, the 350-seat Morris K. Sirote proscenium theater, the 170-seat Reynolds-Kirschbaum Recital Hall, and the Odess Black Box Theater, which can seat up to 120.

Student Life

Graduate students at UAB have many opportunities to become involved in the life of the university. Information about additional groups, both on and off campus, can be found in the UAB Student Handbook. Direction at http://www.uab.edu/handbook. Such organizations include: Graduate Student Government (GSG), Black Graduate Student Association (BGSA), Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS), and Graduate Career Awareness and Trends (GCAT).

Schools and Degrees

This catalog contains information about graduate programs in the College of Arts and Sciences, School of Business, School of Dentistry, School of Education, School of Engineering, School of Health Professions, School of Nursing, School of Optometry, School of Public Health and the Joint Health Sciences.

Most UAB graduate students are working toward a degree; however, some have other educational goals. Graduate level degrees are usually characterized by the level of master’s, specialist or doctoral.

College of Arts & Sciences

Master of Arts

Anthropology
Art History
Communication Management
English
History
Sociology
Psychology

Master of Public Administration

Master of Science

Biology
Chemistry
Computer and Information Sciences
Computer Forensics and Security Management
Criminal Justice
Forensic Science
Mathematics
Physics

Doctor of Philosophy

Applied Mathematics
Biology
Chemistry
Computer and Information Sciences
Medical Sociology
Physics
Psychology

Biomedical Sciences/Joint Health Sciences

Interdisciplinary Themes*

Biochemistry, Structural and Stem Cell Biology
Cancer Biology
Cell, Molecular and Developmental Biology
Genetics, Genomics and Bioinformatics
Immunology
Microbiology
Neuroscience
Pathobiology and Molecular Medicine
*Completion of the training requirements in one of the above interdisciplinary themes provides eligibility for conferral of one of the following PhD degrees:

- Biochemistry and Molecular Genetics
- Cell Biology
- Cellular and Molecular Physiology
- Genetics
- Microbiology
- Neurobiology
- Pathology
- Pharmacology and Toxicology

**School of Business**

**Master of Accounting**

**Master of Business Administration**

**Master of Science in Management Information Systems**

**School of Dentistry**

**Master of Science**

**School of Education**

**Master of Arts in Education**

- Arts Education
- Community Health
- Early Childhood Education
- Educational Leadership
- Elementary Education
- English as a Second Language
- Health Education
- High School Education
- Kinesiology
- Music Education
- Reading
- School Counseling
- Special Education

**Educational Specialist**

- Educational Leadership
- Early Childhood Education
- Elementary Education
- English as a Second Language
- Secondary Education
- Special Education: Autism Spectrum Disorder
- Teacher Leadership

**Doctor of Education**

- Educational Leadership

**Doctor of Philosophy**

- Early Childhood Education
- Health Education Promotion

**School of Engineering**

**Master of Science**

- Biomedical Engineering
- Civil Engineering

- Electrical Engineering
- Materials Engineering
- Mechanical Engineering

**Master of Engineering**

- Advanced Safety Engineering and Management
- Construction Engineering Management
- Design and Commercialization
- Information Engineering and Management

**Doctor of Philosophy**

- Biomedical Engineering
- Civil Engineering
- Computer Engineering
- Interdisciplinary Engineering
- Materials Engineering

**School of Health Professions**

**Master of Science**

- Biotechnology
- Clinical Laboratory Science
- Genetic Counseling
- Healthcare Quality and Safety
- Nutrition Sciences
- Occupational Therapy

**Master of Science in Health Administration**

**Master of Science in Health Informatics**

**Master of Science in Physician Assistant Studies**

**Doctorate of Physical Therapy**

**Doctorate of Science in Administration Health Services**

**Doctor of Philosophy**

- Administration Health Services
- Nutrition Sciences
- Rehabilitation Sciences

**School of Nursing**

**Master of Science in Nursing**

**Doctor of Nursing Practice**

**Doctor of Philosophy**

**School of Optometry**

**Master of Science**

- Vision Sciences

**Doctor of Philosophy**

- Vision Sciences

**School of Public Health**

**Master of Public Health**

**Doctor of Public Health**

**Master of Science in Public Health**

**Doctor of Public Health**

**Doctor of Philosophy**
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.

Request to Withhold Directory Information PDF

**Trustees & Administration**

**The University of Alabama System Board of Trustees**

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*President ex officio*

**Thomas R. Bice, Ed.D.**
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**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**
Admissions

Admission as a Degree-Seeking Student

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. Degree-seeking graduate students are those accepted into a specific graduate program to work toward a specific advanced degree. In addition to the completed online application, the application procedure includes the submission of official transcripts, standardized test scores, and letters of recommendation. To be considered official, all academic documents required for admission must be mailed to UAB directly from the colleges/universities attended, and testing agencies. Degree-seeking applicants are also required to submit additional program-specific credentials and documentation. Each application is reviewed by the graduate program faculty, who make an admissions recommendation to the Graduate School Dean or a representative of the Graduate Dean. All credentials submitted as part of the application for admission become and remain 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.

The application for admission, application instructions, and application deadlines can be accessed at http://www.uab.edu/graduate/prospective-students.

Admission as a Non-Degree Student

The non-degree category serves students who do not wish to pursue a graduate degree at UAB, as well as those who wish to begin graduate study before being admitted to a degree program. Not all graduate courses are open to non-degree seeking graduate students. Although there is no limit to the number of credit hours that may be earned as a non-degree seeking student, should a student later wish to pursue an advanced degree at UAB, the credit earned while in non-degree seeking status is not automatically acceptable toward the degree. A request for transfer of non-degree seeking credits will not be considered until the student has completed at least 9 semester hours of graduate credit in the current UAB program and is in good academic standing. No more than 12 semester hours earned as a non-degree graduate student may be applied toward an advanced degree at UAB. Students wishing to apply more than 12 semester hours are required to appeal to the Graduate School Dean for permission.

Because of U.S. immigration requirements, international applicants (i.e., those who are neither U.S. citizens nor permanent residents) cannot normally be considered for the non-degree category unless already residing in the United States. Immigration laws should be consulted to determine eligibility of international students.

Change from Non-Degree to Degree-Seeking Status

A student with a non-degree classification who wishes to change to a degree-seeking classification must apply via the degree-seeking application and submit the required documents (transcripts, entrance test score, recommendation letters, and program-specific supporting documents). Degree-seeking admission of non-degree students is neither automatic nor guaranteed.

Readmission as a Degree-Seeking Student

Students who have not registered for three (3) consecutive semesters will be changed to inactive student status and must apply for readmission before they will be able to register for courses at UAB. Degree-seeking students who meet the following criteria are able to apply for readmission by submitting the Application for Readmission to Graduate Degree Program form and paying the appropriate fee:

1. Were admitted to a UAB Graduate Degree-Seeking Program within the last five years, and
2. Have registered for and successfully passed at least one graduate course at UAB after being admitted to a UAB Graduate Degree-Seeking Program BUT have not registered for courses for one academic year (3 semesters) or more, and
3. Have not attended any other university or college in the interim, and
4. Wish to return to the graduate program to which they were previously admitted

Readmitted students must meet the degree requirements operative at the time of readmission. Students who wish to return to the non-degree category after an absence of one or more years must submit a new non-degree online application along with the required processing fee. This form can be submitted online at http://www.uab.edu/graduate by clicking "Apply Now."

**Admission with Contingencies**

Students lacking a limited number of specific qualifications may be admitted to graduate programs contingent upon completion of those qualifications. Graduate students admitted on contingency have until the end of the first enrolled semester to resolve all contingencies. Examples of contingencies that must be resolved are submission of official transcripts, official test scores, official degree statements, required course completion, etc. Students are informed of specific requirements for continued enrollment and the time allowed for completion at the time of admission. Failure to meet the requirements during the stipulated time will result in a registration hold until the contingency is resolved and may result in dismissal from the Graduate School.

**Admission of Students Previously Dismissed**

When any individual applies to a graduate program, a significant part of the admissions decision involves an estimate, based on the applicant’s academic history, of whether the applicant can perform satisfactorily at the graduate level. Applicants who have previously been dismissed from the Graduate School based on unsatisfactory academic performance must present convincing evidence to the program faculty and the Graduate School Dean that a substantial improvement has occurred so that it is probable that the applicant can now perform at the required level in graduate work.

**Combined Degree Programs**

UAB offers students opportunities to pursue two advanced degrees concurrently. These are limited primarily to students pursuing both a research degree (such as the Ph.D. or M.S.) and a professional degree (such as the M.D., D.M.D., O.D., or M.P.H.).

Students wishing to be enrolled in two programs concurrently should must submit an a degree-seeking application and be admitted to each program individually. UAB also offers a limited number of 5th year Masters (Fast Track) programs for students who wish to earn both the a Bachelors and Masters degree in five years.

A minimum number of credit hours must be met for each degree. Courses may be used to fulfill requirements for one degree, but not to fulfill the requirements for both degrees.

**Concurrent Degrees**

Students who do not qualify for a combined degree program but wish to begin work toward a second advanced degree may earn up to 12 semester hours in the additional program without special permission while simultaneously earning credit toward the original degree. However, no more than 12 semester hours earned in the first degree program may ever be applied toward the second degree.

**UAB Employee Admission**

To maintain university accountability, UAB faculty and staff who wish to take occasional graduate courses may only register for these courses after admission to the Graduate School in the non-degree seeking status. Admission of a UAB employee as a degree-seeking graduate student requires the concurrence of the applicant’s department chair and dean(s), as well as the approvals required for other applicants to the same program. For more information regarding Educational Assistance, visit the UAB Human Resources Web page at http://www.uab.edu/humanresources/home/benefits.

UAB employees who wish to become full time graduate students and continue to work part time cannot work more than 10 hours per week outside their commitment to meet the requirements of their predoctoral program.

UAB employees who enroll in a Ph.D. program and continue to work full time must meet the following requirements:

1. Cannot also be a full time student*
2. Cannot enroll for more than 18 credit hours per academic year (including fall, spring and summer)*
3. Are not eligible to be supported on a training grant as they are not full time students
4. Cannot be simultaneously supported by a UAB Graduate Assistantship/Traineeship
5. Thesis or dissertation work may not be initiated until the student enrolls in a program (i.e. data generated by the employee/student prior to enrollment that has been submitted for publication or published cannot be included in a thesis or dissertation)
6. Must meet the same set of program requirements as all other students
7. The dissertation committee is responsible for assuring that these stipulations are met
8. The mentor/employer must acknowledge in writing their agreement for the employee to be a part time student while continuing to be a full time UAB employee. Written acknowledgments must be submitted to the program director and the Graduate School.*
9. The Program Director and dissertation committee must agree in writing to a protracted course of study*

*Stipulations 1, 2, 8 and 9 do not apply to employees of companies which support their employees as full time students in a UAB Ph.D. program.

**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 Graduate Admissions**

Mailing Address for Documents and Credentials:
G03 Lister Hill Library
1720 2nd Avenue South
programs, a grade of C is a failing grade. It is the student’s responsibility of F; the Graduate School does not use the grade of D. In some graduate level or above with a performance below the C level will receive a grade performance, and C indicates performance only minimally adequate for a

The grade of A indicates superior performance, B indicates adequate performance, and C indicates performance only minimally adequate for a graduate student. Any graduate student completing a course at the 500 level or above with a performance below the C level will receive a grade of F; the Graduate School does not use the grade of D. In some graduate programs, a grade of C is a failing grade. It is the student’s responsibility to know and abide by program grading requirements which may be more stringent than that of the Graduate School.

Four (4.0) quality points are awarded for each semester hour in which an A is earned, three (3.0) quality points are awarded for each semester hour in which a B is earned, and two (2) quality points are awarded for each semester hour in which a C is earned. No quality points are awarded for a grade of an F. A student’s grade point average (GPA) is determined by dividing the total quality points awarded by a student’s semester hours attempted. Students can view their cumulative GPA in BlazerNET and can view their term GPA on their transcript which is also available in BlazerNET.

With the approval of the graduate program director, a course may be designated as a “pass/not pass course.” A grade of P (passing) signifies satisfactory work. A grade of NP (not passing) indicates unsatisfactory work although there is no penalty assessed with respect to the grade point average (GPA). Research courses with course numbers 698, 699, 798, and 799 are considered pass/not pass courses.

**Temporary Grade Notations**

If an instructor does not submit a grade at the end of a semester, a temporary grade of “N” (no grade reported) will be recorded. A grade of N does not positively or negatively impact a student’s GPA. If no permanent grade has been reported by the end of the following semester, an F will automatically be entered in the student’s academic record for the course.

The temporary notation of “I” (incomplete) may be reported at the discretion of the instructor to indicate that the student has performed satisfactorily in the course but, due to unforeseen circumstances, has been unable to finish all course requirements. An incomplete is never given to enable a student to raise a deficient grade. This notation should not be used unless there is reasonable certainty that the requirements will be completed during the following semester, because at the end of that semester, the incomplete automatically changes to an F if it has not been replaced with a letter grade. In highly unusual circumstances, the student may request an extension of the time to complete the requirements. This request must be submitted in writing in advance of the time when the grade automatically changes to an F because the approval of the instructor, graduate program director, and Graduate School Dean are all required.

**Academic Standing**

It is critically important that graduate students at UAB understand both the Graduate School’s and their program’s academic standing policy and that they are aware of their own academic standing at all times. For a student to maintain good academic standing in the Graduate School, they must maintain a cumulative grade point average (GPA) of at least 3.0 (B average) and an overall satisfactory performance on pass/not pass courses. Satisfactory performance on pass/not pass courses is defined as earning at least as many hours of P as of NP grades.

A degree-seeking or non-degree-seeking graduate student, who, at the end of any semester, fails to meet the criteria to maintain good academic standing will be placed on academic probation. Students on academic probation must re-establish good academic standing within the next two semesters during which they are enrolled at UAB. Failure to reestablish good academic standing at the end of their second term of enrollment while on academic probation will result in academic dismissal from the UAB Graduate School.
The rules stated above govern academic probation and dismissal, administered by the Graduate School. Individual graduate programs may establish and administer program probation and dismissal governed by more stringent requirements. In general, a student’s retention in a specific graduate program is contingent on the faculty’s belief that the student is likely to complete the program successfully. If the faculty ceases to hold this belief at any point, the student may be dismissed from the program. It is a graduate student’s responsibility to be aware of and abide by program academic standing requirements in addition to the general academic standing policy in the Graduate School. Program probation and dismissal policies preempt the Graduate School policies.

Repeated Courses

Graduate students may repeat a course one (1) time in an effort to improve grades and/or to improve understanding of the course content only with the permission of the graduate program director. All courses taken and all grades earned are permanently recorded on the student’s transcript. Both grades will also be calculated in the student’s GPA unless the Grade Replacement policy is applied. Students wishing to repeat a course more than one time should seek approval of both their program director and the Dean of the Graduate School. Graduate programs may choose to not allow students to repeat courses.

Grade Replacement

A graduate student who repeats a course taken at UAB and earns a better grade the second time may request a grade replacement in which the grade for the first course be excluded from their GPA calculation. The grade replacement policy may be used a maximum of two (2) times, only once for any course, which allows a student to use grade replacement for two different courses. Graduate programs reserve the right to not allow grade replacement or to allow less than the Graduate School’s maximum number of grade replacements. In addition, individual programs may have course repeat and grade replacement policy rules in addition to those of the Graduate School.

If approved, the student’s transcript will show both the original grade and the course repeat grade; however, the first grade will be excluded from the student’s GPA calculation and, only the grade points and credit hours earned in the repeated courses will be counted toward degree completion. Once a course grade is replaced, the decision is irrevocable. In accordance with the UAB Academic Honor Code, any course grade of F for academic misconduct supersedes any other grade or notation for that class and therefore is not eligible for grade replacement.

It is the student’s responsibility to notify the Graduate School of their request to apply the grade replacement policy to a repeated course as the process is neither automatic nor guaranteed. The grade replacement policy requires approval of the graduate program director and the Graduate School. Grade replacement requests must be made prior to application for degree. The grade replacement policy can only be applied to grades earned at UAB and may not be applied after the student has graduated.

The Grade Replacement Request form is available online at http://www.uab.edu/graduate/graduate-school-quicklinks/online-forms.

Grade Changes

Final grades for an I (Incomplete) should be submitted no later than the grade submission deadline of the semester after the notation was originally awarded; Incomplete not changed by that time will convert to Fs. In general, grades submitted by graduate faculty members 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 faculty member’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.

Time Limitations

Graduate students are generally expected to complete all degree requirements within 5 years of matriculation for masters and 7 years of matriculation for doctoral students. One extension of these time limits can be requested when mitigating circumstances preclude completion of requirements within the time limit. The request for an extension must include a written and signed Completion Plan which outlines the timeline for degree completion. Instructions for preparing a Completion Plan are available on the Graduate School website at http://www.uab.edu/graduate/graduate-school-quicklinks/online-forms. Time limit extension requests require the approval of the student’s dissertation committee as well as graduate program director and must be presented in writing to the Dean of the Graduate School for consideration and approval. Courses taken more than 5 years before graduation for masters students or 7 years before graduation for doctoral students may not be applied toward a degree without the approval of the graduate program director and Graduate Dean.

Academic Ethics & Misconduct

Graduate students at UAB have joined a distinguished academic community that is guided by a conviction in the worth of knowledge and its pursuit. By virtue of their membership in this community, they accrue many benefits—among them, access to the ideas and materials of others. Graduate students not only learn from others but also engage in the pursuit of new knowledge and, in some instances, teach or provide service to others. Being a member of an academic community and functioning in multiple roles in the community carries with it certain responsibilities.

As members of an academic community, students, faculty, and administrators share a responsibility to seek truths and communicate them to others. As we pursue knowledge and encourage learning, we acknowledge the need for a free exchange of ideas and recognize the importance of listening to and maintaining respect for the views of others. We must always aspire to learn, apply, and communicate to others the best scholarly standards of the disciplines in which we are involved. High scholarly standards demand high ethical standards.

We must commit to learning and communicating the best ethical standards and their application to our disciplines. In interactions with others, we must demonstrate respect for them as individuals, give credit for significant academic or scholarly assistance, and respect the confidential nature of some exchanges. We must adhere to the highest standards of academic conduct, avoiding those acts of misconduct and dishonesty that undermine the purposes of the academic community.

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 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 Honor Code

The University of Alabama at Birmingham expects all members of its academic community to function according to the highest ethical and professional standards. Students, faculty, and 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: helping another student commit an act of academic dishonesty. Allowing others to copy your quiz answers, or use your work as their own are examples of abetting.

CHEATING: use or attempted use of unauthorized materials, information, study aids, the answers of others, or computer-related information.

PLAGIARISM: 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, use of commercially available scholarly papers, failure to cite sources, and copying others’ ideas.

FABRICATION: presenting as genuine falsified data, citations, or quotations.

MISREPRESENTATION: falsification, alteration or misstatement of the contents of documents, academic work, or other materials related to academic matters, including representing work substantially done for one class as work done for another without receiving prior approval from the instructor. Misrepresentation also includes misrepresenting schedules, prerequisites, transcripts, or other academic records.

A student who commits an act of academic misconduct within the context of meeting course requirements will be given the grade of F in the course or on the assignment at the discretion of the department or program in which the misconduct occurred. Academic misconduct can occur in other contexts as well, such as when taking comprehensive examinations, performing research, preparing manuscripts or generally during the performance of other activities related to the process of satisfying degree requirements. Under Graduate School policy the program in which the student is enrolled may choose to expel the student from the university on the first offense. If, as determined by the records of the Graduate School or the department or program, the act of academic misconduct is a second offense, the student will be expelled from the university. The transcript of a student expelled for committing academic misconduct will bear the statement “Expelled for Academic Misconduct.” 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 Reporting a Suspected Violation

When a faculty member or another student sees cause to charge a student with academic misconduct, within 7 days of noting the incident that individual will communicate the charge to the department chair or program director of the department or program in which the accused student is enrolled. The department chair or program director to whom the charge is presented will notify the student of the charge and provide the student with an opportunity to respond. If the student can respond in a way that, in the opinion of the program director and the department chair, either dispels the charge or provides the opportunity to resolve the issue informally, an informal resolution can be prescribed. If the student cannot refute the charge effectively, the department chair or program director will expeditiously notify the student of the administrative action to be taken. The notice shall also inform the student of the right to appeal and the steps involved in that process. Copies of any such communication will be provided to the academic dean of the school in which the student is enrolled.

If the school or department in which the student is enrolled has its own honor code, then the procedures of that honor code must be followed, including any prescribed appeals process. For dual degree students whose academic misconduct occurs in one of their two schools, the honor code of the school in which the infraction occurred should prevail. However, if no local honor code exists, the Graduate School’s procedure must be followed.

Right to Appeal and Formation of an Honor Council

If a student is the subject of an administrative action as the result of an academic misconduct violation and wishes to contest that administrative action, they may appeal in writing to the dean of the school in which the student is enrolled. The dean will then convene an Honor Council consisting of five students and three faculty members from various departments within the school. All of the students chosen to serve must be in good academic standing.

The Honor Council shall elect a chairperson from among the eight members. The Chair may be either a student or faculty member. The duties of the Chair include convening the Honor Council, presiding over hearings and communicating with the administration of their school on behalf of the Honor Council. In all matters, the members of the Honor Council are instructed to treat the information put forward to them with the strictest confidence.

Breaches of confidentiality are themselves violations of the Student Honor Code and will be treated as such.

Initial Procedures

After being informed of the charges and the failure to reach an informal resolution, the Academic Dean may also attempt to informally resolve the impasse between the student and the faculty member(s). In the event this attempt is unsuccessful, the Academic Dean shall refer the allegation(s) to the Honor Council. The Academic Dean will provide the Honor Council with a statement of the allegation(s) against the accused student, a description of the evidence and supporting documents (if available).

The Honor Council shall convene to review the charge and all evidence supporting it. After review, the Council may either dismiss the allegation(s) on the grounds that insufficient substantiating evidence
exists, or support the charges, also based on the evidence. The Honor Council shall provide notice of the specific charge or of the dismissal of the alleged violation to the accused student by certified mail, return receipt requested, or by hand delivery, and to the Academic Dean. If substantiated, the statement of the charge shall include a brief summary of the alleged violation and the evidence presented in support of the charge, in enough detail as to allow the accused the opportunity to rebut the charge, and shall provide notification to the accused student of their right to a hearing. The accused student must respond to the charge within five days, unless excused by the Honor Council. In their written response to the Honor Council, the accused student must admit or deny the charge and must formally request or waive their right to a hearing before the Honor Council.

Once notice of the specific charge has been provided to the accused student and to the Academic Dean, the Honor Council shall decide on a time for the hearing and any preliminary deadline(s) for the submission of supporting documents and the names of proposed witnesses. Granting a request from the accused, or from the School, to reschedule the hearing is within the discretion of the Honor Council, but shall not be unreasonably denied. The Honor Council shall provide written notice to the accused student of the time and place for the hearing, and if witnesses are to be called in their defense, ask the student to provide their names along with a statement describing the testimony of each witness. The Honor Council shall review any documentary evidence provided by the student in advance of the hearing.

The Hearing
The process shall generally include the following:

1. call to order by the Chair;
2. introduction of those present;
3. statement of the Charge and possible penalties if the charge is proven;
4. statement of the evidence and testimony in support of the charge, and questioning of witnesses;
5. statement of evidence and testimony in opposition to the charge (rebuttal), and questioning of witnesses
6. closing statement. All questioning of witnesses shall be by the Honor Council unless the Honor Council shall decide otherwise.

1. A hearing before the Honor Council shall not be bound by formal rules of evidence or judicial rules of procedure. The Honor Council may hear any testimony or receive any supporting evidence that it deems to be pertinent to the charge. Both the accused and a representative of the School may be present throughout the hearing. The accused student shall be afforded a reasonable opportunity to be heard, to question witnesses indirectly through the Honor Council, to rebut adverse evidence, and to make a brief closing statement. Members of the Honor Council may ask any questions at any time during the hearing and may elect to disallow or to curtail testimony that the Honor Council determines to be unnecessarily redundant or not relevant to the issue(s) being heard. Throughout the hearing, all persons present shall conduct themselves in an orderly manner. The accused may be accompanied at the hearing by an advisor of their choosing, however, the advisor may not participate in the hearing. The Honor Council shall be responsible for the conduct of the hearing at all times and shall keep a record of the proceedings in a format it chooses. Hearings before the Honor Council are confidential proceedings and only those persons determined by the Honor Council to have a need to be present shall be included. Except for the accused (and an advisor if invited by the accused) and the representative of the School, all other witnesses shall be excluded from the hearing room, except when testifying. No more than one witness shall be called to testify at a time. The School or the Honor Council may elect to invite UAB Security to be present at an Honor Council hearing.

As soon as practicable following the conclusion of the hearing, the Honor Council shall meet in private session to consider all of the evidence presented, and shall decide on one of two outcomes. The decision of the Honor Council shall be that the charge is either (1) proven by a preponderance of the evidence or (2) not proven by a preponderance of the evidence. A vote of six of the eight members shall be required for the charge against the accused to be proven. Following the vote, the Honor Council shall record the vote and shall provide a brief narrative statement explaining the rationale for their finding(s). The written decision and rationale of the Honor Council shall be transmitted to the Academic Dean, by internal communication, upon the conclusion of the Honor Council’s deliberations. The Honor Council shall notify the accused of the outcome by certified mail, return receipt requested, or by hand delivery. A decision of the Honor Council in favor of the accused student shall conclude the case.

Penalties for Violation of the Honor Code
Generally, a first violation of the Honor Code shall result in the assignment of a failing grade in the assignment or in the course in which the violation occurred, at the discretion of the instructor. A notation on the student’s permanent academic record may also be made to indicate that a reduced or failing grade was assigned because of an Academic Misconduct violation (e.g., “F, Academic Misconduct violation, June 15, 2006”), on the judgment of the Honor Council. A second violation of the Honor Code shall result in expulsion from the University.

No student may graduate until pending allegations of an Academic misconduct violation have been resolved. No student expelled from the Graduate School because of an academic misconduct violation shall be eligible for readmission.

If at the end of the appeals process performed at the school level, the accused student wishes to appeal to the Graduate School Appeals Board, they must follow the procedure outlined in the Graduate Catalog. Upon receipt of the appeal from the student, the Graduate Dean will request from the Academic Dean of the school in which the student is enrolled all appropriate documentation accumulated to that point. The Graduate Dean will then be responsible for maintaining records of all additional proceedings.

Nonacademic Conduct
The university is a community of scholars and learners; therefore, all participants are expected to maintain conduct that facilitates the institution’s pursuit of its educational objectives, exhibits a regard for the rights of other members of the academic community, and contributes to the maintenance of a healthy learning environment. Through appropriate due process procedures, conduct action will be taken in response to behavior that violates these principles. The Office of Student Advocacy, Rights and Conduct supports the mission of the university by protecting the rights of all members of the university community and by promoting civility, integrity, responsibility, openness, mutual respect and justice by enforcing community standards. A more detailed description of
nonacademic misconduct can be found by visiting http://www.uab.edu/ students/student-life/item/817-non-academic-student-conduct. It is the
student’s responsibility to be fully aware of all policies and procedures
described in the Non-Academic Student Code of Conduct Policy. The
Office of Student Life and the Vice Provost for Student and Faculty
Success have the responsibility for coordinating policies and procedures
regarding students’ nonacademic misconduct.

Grievance Policy

Although rare, disagreements can arise that may affect a student's
progress towards the completion of the degree. The parties involved in
such a dispute should make a good faith effort to discuss and resolve the
disagreement. The following guidelines may be helpful.

1. Identify the problem; clearly define what happened and what you
   perceive is needed to resolve the issue.
2. Approach the other person or group involved with the dispute one#
on#one. Set up a mutually agreeable time to talk; listen and ask to be
   listened to; use "I" statements when speaking; avoid assigning blame
   or leveling accusations.
3. If these steps do not culminate in a resolution, the parties involved
   with the dispute should agree to approach an impartial third party, a
   mediator, who will respect confidentiality and with whom the situation
can be discussed. The Program Director will suggest such a third
party if asked. The mediator may be able to help the parties involved
reach a resolution.
4. If no resolution is found then you may submit the disagreement to the
   Graduate Program for arbitration. Please follow these procedures:
   a. Each party in the dispute should submit a written description of
      the disagreement to the Program Director and the department
      Chair. Please include a description of the actions taken to resolve
      the dispute to date and the name of the mediator who was
      involved.
   b. The Graduate Program Director will review the written
documents. The Program Director, in consultation with the
   Program Advisory Committee, will make a determination as to
whether or not the disagreement is Program-related and thus
appropriate for arbitration at the Program level.
   c. If the dispute is found to be Program-related, the Graduate
   Program Director, together with the Graduate Program
   Committee, will act as an arbitrator. If the dispute involves
   the Program Director, Associate Director or any member of
   the Program Committee, then that individual will be excused
   from the deliberations. The Committee may request additional
   information from the parties involved. The Program Director and
   the Admissions and Advisory Committee will meet to discuss the
   problem within 14 calendar days following receipt of the written
document or following the receipt of any additional materials. In
the event that a quorum of the Committee is not available within
this time period, the Committee will meet as soon thereafter as
a quorum can be gathered. The Committee may also ask the
parties in the dispute to appear before the committee to provide
additional information.
   d. The result of the Committee’s deliberations will be communicated
   in writing to the parties involved in the dispute within seven (7)
calendar days after the meeting.
5. To department Chair for final review of arbitration before proceeding
to Appeals Board.

If a party involved in the dispute is not satisfied with the outcome of the
arbitration process, an appeal may be submitted to the Graduate School
Appeals Board. Please see the Graduate Student Handbook, Graduate
School Appeals Board for specific information about the appeals process.

Graduate School Appeals Board
(GSAB)

A. Purpose:

The purpose of the GSAB is to review appeals brought by graduate
students of decisions made by university representatives concerning:

1. retention in graduate programs,
2. charges of academic misconduct or dishonesty,
3. selected other issues related to graduate education as deemed
   appropriate to forward to the GSAB by the Graduate Dean, the
   provost, or other university officials.

B. Limitations:

The GSAB will not review:

1. appeals of course grades,
2. appeals of a dismissal based on lack of adequate progress toward
   meeting degree requirements,
3. appeals for which the student has not previously fully used all other
   applicable appeal or review processes,
4. appeals filed more than 30 calendar days from the date of a prior
   review or 30 calendar days from the date of receiving notification of
   an action or decision,
5. misconduct in research which falls under the Policy Concerning the
   Maintenance of High Ethical Standards in Research and Scholarly
   Activities.
6. grievances brought against the faculty of a specific program. Program
   faculty report to the chairpersons and deans in the schools in
   which they hold their primary appointments. Accordingly, it is the
   responsibility of those chairpersons and deans to adjudicate at the
   school level any appeals brought by graduate students against their
   faculty. Decisions made at the school level in such cases will not be
   reviewed by the Graduate School Appeals Board.
7. grievances or appeals brought forth by masters (Plan II) students
   in professional/practice-based programs. These will be adjudicated
   exclusively within the school in which the program is housed. Any
   questions related to whether a program is considered professional/
   practice-based should be referred to the program’s director.

C. Composition:

The GSAB will consist of five members of the graduate faculty and three
graduate students in good standing, all broadly representative of the
graduate

programs in the university. The GSAB will be chaired by a designee of
the Graduate Dean. Members of the committee will be appointed on an
ad hoc basis as needed by the Graduate Dean. The Graduate School
will provide support personnel for the board to record proceedings of
hearings.

D. Meetings:
The GSAB will meet as soon as possible after assembly by the Graduate Dean to adjudicate a pending appeal. A quorum for a meeting will be at least five persons: three graduate faculty members and at least two graduate student members. Any member of the GSAB may disqualify himself or herself. After notification of the Board composition, the student bringing the appeal may disqualify one faculty and one student member of the board. If the disqualification of board members results in absence of a quorum, the process will be suspended until the Graduate Dean can appoint additional members.

E. Notification:

The chair of the GSAB will notify the student bringing the appeal and the student’s program director of the decision reached by the GSAB in the initial review of the appeal—specifically, whether an appeal will be heard. If a hearing is to be held, the chair will notify the student and student’s program director of the date, time, and place for the hearing. The chair of the GSAB is responsible for notifying the Dean of the Graduate School of the findings and recommendations reached by the GSAB after the hearing. The Dean of the Graduate School will notify the student and student’s program director of his or her action.

F. Authority:

The GSAB may recommend affirming or reversing the decision being appealed and making such recommendations for further actions as seem appropriate. In the course of any hearing, the GSAB is authorized to request additional evidence from, or the appearance of, any student, faculty or staff member, or other employee of the university, or other individual as a witness. The GSAB shall have final authority in procedural matters. The GSAB will forward recommendations to the Dean of the Graduate School along with a record of the hearing proceedings. The Dean will make a final independent decision, taking into account the findings and recommendations of the GSAB and the records of the hearing. The Dean will inform the relevant parties and the GSAB of the decision in writing within 14 calendar days of receiving the GSAB recommendation.

Procedures

A. Filing an appeal:

Before a request for an appeal is accepted by the GSAB, the normal channels for resolving disputes must have been followed. First, the student should consult with their advisor to resolve the issue at that level. If the issue is not then resolved, the student should seek out the program director or department chair to request a resolution. If the program director and department chair have not been able to resolve the appeal or the action still needs to be pursued, it is then appropriate to pursue the issue with the academic college or school dean. At that point either the Honor Code of the school in which the student is enrolled should be invoked, or if no school based Honor Code exists, the Honor Council procedure described previously should be followed. If the concern has not been resolved to the satisfaction of the student at any one of these levels, an appeal to the GSAB may then be pursued.

All requests for appeals to be considered by the GSAB must be submitted to the Dean of the Graduate School, in writing, on the approved form (available in the Graduate School office and online) along with supporting documents and any other pertinent evidence. The written appeal must specify the grounds for the appeal. It is the responsibility of the student making the appeal to demonstrate to the GSAB that grounds for the appeal exist.

The Dean of the Graduate School will notify those individuals whose decisions are being appealed and will request relevant information. Information and evidence will be transmitted to The Graduate School Dean and to all members of the GSAB. Any additional evidence brought to the hearing is subject to acceptance or rejection by the GSAB. All information submitted becomes part of the permanent record of the GSAB hearing record maintained by the Graduate School.

B. Initial review of appeals:

The GSAB will be convened by the chair to conduct an initial review of the appeal to determine whether the appeal is subject to dismissal or if further action by the GSAB is warranted. Appeals that fail to set forth grounds for a full review by the GSAB shall be dismissed. The GSAB will consider appeals when:

1. all other levels of appeal have been exhausted.
2. the student can show grounds that he or she was previously denied a fair hearing.
3. the decision being appealed is not supported by substantial evidence.
4. the sanction being imposed is beyond the authority of the personnel involved.
5. the sanction or action is unduly severe or disproportionately harsh in comparison to similar cases.

When the GSAB determines that a graduate student should be afforded a hearing on an appeal, the chair of the GSAB shall give written notice to all parties involved in the appeal, allowing no less than one week of preparation time before the hearing.

C. Hearings:

All hearings by the GSAB shall be subject to the following requirements:

1. Any additional materials requested by the GSAB at the time of the initial review to be considered at the hearing shall be made available to all parties prior to the hearing.
2. Parties to the appeal have the right to be present and hear all arguments and oral statements made to the GSAB committee.
3. Parties to the appeal shall make arguments, present oral statements and written documents, and question witnesses with regard to any issues of fact relevant to the grounds for appeal.
4. Hearings shall not be adversarial in nature and shall be conducted in a manner conducive to ascertaining the facts of the case upon appeal.
5. The GSAB may establish time limitations for presentations before the board.
6. Hearings shall be closed to the public.
7. GSAB members may address questions to any person giving testimony before the board.
8. In hearings involving more than one student, a single hearing may be scheduled for each.
9. It shall be the responsibility of the GSAB chair, together with the recording secretary, to see that the integrity of the record is maintained.
10. The chair shall preside and rule on matters of procedure and evidence.
11. The chair shall have the right to dismiss anyone from the hearing should his or her conduct become disorderly.

D. Findings, decisions and recommendations of the GSAB:
Upon completion of hearings, the GSAB shall meet in closed session for deliberations. A simple majority vote of the GSAB is required to substantiate all findings and recommendations. In determining its findings and recommendations, the board shall concern itself only with whether reasonable people, acting on the available evidence, could have made the same decision or taken the same action as the one being appealed.

The GSAB shall prepare written findings addressing all issues presented in the appeal and shall make a recommendation that indicates whether the appealed decision or sanction should be affirmed, set aside, or modified. The GSAB may also make recommendations, if appropriate, for further actions by university authorities.

The Dean of the Graduate School has 14 calendar days to act upon the findings and recommendations of the GSAB. If no action is taken within the 14 days, except when extenuating circumstances justifying a delay are involved, the findings and recommendations of the GSAB will be final. Further appeal is not available within the university.

The application for a hearing before the GSAB is available in the Graduate School office, Lister Hill Library, Suite G03, and at the Graduate School’s Web site (http://www.uab.edu/graduate/images/ acrobat/forms/ acadappeal.pdf).

**Enrollment**

**Registration**

Students must register for all courses they wish to take as graduate credit. The UAB class schedule can be found on the BlazerNET website located at http://www.uab.edu/blazernet. The class schedule lists the courses offered each semester and gives full details on prerequisites, registration dates, and procedures. Students are able to register for courses as well as adjust their schedule by adding and dropping courses through the end of the drop/add period which is denoted on the academic calendar.

To be enrolled as a full-time graduate student, a student must register for at least 9 semester hours in the fall, spring, and summer semesters. To be classified as a half-time graduate student, they must register for at least 5 semester credit hours in the fall, spring, and summer semesters. Degree-seeking students who wish to receive financial aid must be enrolled at least half-time.

Certain funding sources (e.g., training grants, individual grants and fellowships) may have additional enrollment requirements that must also be satisfied. In addition, student loan recipients must satisfy certain minimal enrollment requirements to defer repayment. Students should consult with their funding source or the Financial Aid Office to determine these requirements as they apply to their specific situation.

**Auditing Graduate Courses**

Graduate students who have been formally admitted as either a non-degree or degree-seeking student may audit courses available for graduate credit with the permission of the instructor and payment of appropriate fees. Courses taken for audit credit are not counted toward the hours required for full-time status, are not counted as earned hours, are not assigned a letter grade, and do not impact a student’s GPA. Provided the instructor’s requirements are met, the course will appear on the transcript with the notation AU.

The Permission to Audit Graduate Level Coursework form, which can be obtained online at www.uab.edu/graduate/online-forms, should be submitted to the Graduate School for approval prior to registration.

**Withdrawal from Courses**

Graduate students are expected to complete courses for which they have registered, unless unusual unforeseen circumstances require withdrawal. The procedures for withdrawal are specified on BlazerNET. Mere cessation of class attendance does not constitute withdrawal, either academically or for tuition purposes. Students who wish to withdraw from a class or classes after the drop/add period must proceed with the withdrawal in BlazerNET no later than the last day to withdraw for the semester, which is denoted on the Academic Calendar calendar at, www.uab.edu/students/academics/academic-calendar. If a student follows the appropriate procedures to withdraw in BlazerNET, a grade of “W” will be entered on the transcript.

**Leave of Academic Absence**

A graduate student experiencing extenuating circumstances may request a leave of academic absence which may not exceed one (1) academic year. The Request for Leave of Academic Absence form can be found at the Graduate School Web site at www.uab.edu/graduate/online-forms. The request must be approved by the student’s graduate program director and Graduate School Dean. Before a student can return from an approved leave of academic absence, the graduate program director must submit to the Graduate School a request to allow the student to re-enroll in courses.

**Course Numbering System**

The scholastic level of UAB courses is indicated by the century number. Courses numbered 500 and above are graduate and post baccalaureate courses. Courses numbered 500-599 are available to upper-level undergraduate and beginning graduate students. Courses numbered 600 and above are for available only to graduate students. Those numbered 600-699 are intended primarily for students at the master’s level, with 698 reserved for nonthesis research and 699 reserved for thesis research. Courses numbered 700-799 are primarily for students at the doctoral level, except in the School of Education where the numbers from 700-729 are reserved for courses leading to the degree of Educational Specialist (Ed.S.). The number 798 is reserved for nondissertation research and 799 for dissertation research. Seminars, practica, individual studies and projects, internships, and residencies will generally carry numbers in the upper range of these centuries.

**Undergraduates Seeking Enrollment**

UAB undergraduate students may be allowed to enroll in a graduate course with the approval of their academic advisor, their undergraduate program director, the graduate course instructor, their undergraduate program director, and the graduate program director. The Undergraduate Student Request for Enrollment in Graduate Level Coursework form can be obtained online at www.uab.edu/graduate/online-forms. Credits earned by undergraduate students may be applied to either an undergraduate degree or a graduate degree, but not both. Students must indicate which type of credit they would like to earn on the request form. 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.
Withdrawal from the UAB Graduate School

Students who wish to withdraw from the University of Alabama at Birmingham must submit a written request to the Graduate School expressing their intent to withdraw. Should a student who has withdrawn from the Graduate School decide they would like to return to the university, they are not eligible to complete a readmission form; these students must apply to the Graduate School as a degree-seeking student and be admitted by the program.

Completion of a Degree

Steps Toward Earning a Master's Degree

1. Admission to master's degree program
2. Selection of faculty advisor
3. Maintenance of academic good standing (p. 10)
4. Appointment of graduate study committee—Plan I (Thesis) only
5. IRB and/or IACUC approvals obtained and renewed annually
6. Admission to candidacy—at least one semester before graduation is expected—Plan I (Thesis) only
7. Application for Degree—See www.uab.edu/graduate/deadline-dates for each semester’s deadline
8. Production of preliminary version of thesis (Plan I only)
9. Defense of thesis (for Plan I only) (see www.uab.edu/graduate/deadline-dates)
10. One PDF of the defended committee-approved thesis (Plan I only) submitted online no later than 2 weeks (10 business days) after the published public defense deadline
11. Recommendation for degree
12. Conferring of degree

Faculty Advisor

Immediately after a degree-seeking student enters the UAB Graduate School, a member of the faculty of the graduate program to which the student has been admitted should be assigned to serve as the student’s advisor. The assignment may be a temporary arrangement. The student and the advisor should confer about courses and any special work to be taken on the basis of the student’s previous experience and the requirements of the graduate program.

Plan I or Plan II

The Graduate School recognizes two principal paths, known as Plan I and Plan II, that lead to the master’s degree. Where both Plan I and Plan II are available within the same graduate program, an early and meaningful choice should be made by the student, in close consultation with the student’s advisor. A change in choice of plans requires the approval of the program director.

Plan I requires the completion, in good academic standing, of at least 24 semester hours of appropriate graduate work and 6 semester hours of thesis research for a total of at least 30 semester hours, with the presentation of an acceptable thesis embodying the results of original research work.

Plan II may not require research and does not require a formal thesis. A minimum of 30 semester hours of appropriate graduate work must be completed in good academic standing. Although thesis research is not required as part of a Plan II course of study, the student is often expected to gain insight into the techniques of problem posing and problem solving and to use these insights to prepare a written report. A plan of study/course curriculum outline is required for all Plan II master’s students when submitting the application for degree prior to graduation.

Graduate Study Committee

Traditionally, graduate study is highly flexible and individualized. A specific plan of study should be developed as soon as possible upon matriculation. Graduate study committees, often chaired by the student’s advisor, are appointed to guide the student toward their degree. Some graduate programs do not use a graduate study committee for Plan II students, particularly when flexibility in the course of study is limited by accreditation and other external constraints. Graduate study committees should consist of at least three Graduate Faculty members, each of whom must have credentials equal to or exceeding that of the degree that the student is pursuing, must have been approved by the Graduate School Dean for Graduate Faculty status, and should be able to contribute some relevant insight and expertise to guide the student. In addition, one committee member should be from outside the student’s graduate specialization.

Recommendations for graduate study committee membership are submitted by the advisor and the student to the graduate program director, who subsequently submits these recommendations to the Graduate School Dean. Changes to a student’s committee must be submitted on the Request to Change Graduate Study Committee form available at www.uab.edu/graduate/online-forms. Graduate faculty appointees and instructions for requesting new appointments are available at www.uab.edu/graduate/gradfaclist. New Graduate Faculty appointments should be requested by the department and approved by the Graduate School Dean prior to being listed on the recommendation form to serve as a member of a student’s committee. Graduate Faculty status definitions are available at www.uab.edu/graduate/definitions-of-graduate-faculty-categories.

Additional Program Requirements

In consultation with the faculty, the director of each graduate program will specify any additional requirements, such as a reading knowledge of a foreign language or a working knowledge of statistics, which are considered essential to mastery of the academic discipline. Such requirements become conditions for the completion of the degree. The program may also adopt a system of examinations that the student must pass at various points in the program.

Admission Into Degree Candidacy (Plan I Only)

Admission to candidacy is a formal step acknowledging that the student has been performing well and is likely to complete the degree. Candidacy admission is recommended by the student’s graduate study committee and approved by the graduate program director and the Graduate School Dean. For Plan I students, admission should occur when the student has obtained an adequate background and has provided the committee with an acceptable proposal for thesis research. Students do not have to complete all coursework prior to admission to candidacy if the graduate study committee certifies that the student has an adequate foundation in the discipline. Students must be in good academic standing to be eligible for admission to candidacy, and admission must take place no later than one semester before the expected graduation. Before being admitted to candidacy, students must complete a Research Compliance
Verification form and attach photocopies of the appropriate assurance letters and/or forms. Students must be admitted to candidacy before they can register for thesis research hours (i.e., 699). Applications for Admission to Candidacy are available online at www.uab.edu/graduate/online-forms.

**IRB and IACUC Approval**

If a student’s research involves human or animal subjects, approval from the IRB or IACUC must be documented before admission to candidacy can be approved. IRB/IACUC approvals must be kept current until the research is completed. For ways in which students can be added to a protocol, refer to the Tip Sheet for Students Involved in Research Involving Human or Animal Subjects. The IACUC form must display the appropriate research protocol number.

**Application for Degree**

Each candidate for a master’s degree must signify their intention to complete the requirements by a particular graduation date by submitting a completed Application for Degree Form, available online at www.uab.edu/graduate/online-forms. Because this form is used to document completion of requirements, order the diploma, and to include the student’s information in the commencement program, the form must be received in the Graduate School Office by the posted deadline on the Graduate School’s website at www.uab.edu/graduate/deadline-dates. Because each graduate program may have an earlier deadline, students are also responsible for knowing and abiding by their program deadlines.

A plan of study/course curriculum outline is required for all Plan II master’s students when submitting the application for degree (prior to graduation). All Students must be registered during the semester in which degree requirements are completed. Plan I students must be registered for at least one (1) hour of 699 research credit during their term of graduation. If degree candidates are covered by the student health insurance policy, hold an assistantship, or have student loans, it may be necessary to register for a prescribed minimum number of credit hours to retain these benefits. Students should check with the appropriate office(s) if retention of these benefits is a concern.

**Thesis**

The thesis required under Plan I should present the results of the candidate’s original research and the interpretation of those results. The document should also demonstrate the candidate’s acquaintance with the literature of the field and the proper selection and execution of research methodology.

The final approved version of the thesis must be submitted as a single PDF for final review no later than 2 weeks (10 business days) following the public defense. Master’s students must submit the Approval Form, signed by each committee member and the program director. Signatures of committee members and program directors on the approval form indicate their assurance that they have examined the document and have found that it is of professional quality from all standpoints, including writing quality, technical correctness, and professional competency, and that the document conforms to acceptable standards of scholarly presentation. The Graduate School is then responsible for ensuring that the final version of the thesis meets the physical standards required of a permanent, published document and for adherence to the requirements stated in the UAB Format Manual (available online at www.uab.edu/graduate/images/acrobat/forms/ttheses/FormatManual.pdf).

The UAB Publication Agreement form is submitted online. Additional information concerning completing the final steps of the publication process is available online at www.uab.edu/graduate/submitting-your-thesis-or-dissertation-to-the-graduate-school.

If, in the opinion of more than one member of the thesis committee, the student has failed the thesis defense, there is no consensus to pass. The chair of the committee shall notify the student in writing that the thesis fails to meet the requirements of the program and will share the reason(s) for failure. If the student resubmits or submits a new thesis for consideration by their graduate program, at least two members of the new examining committee shall be drawn from the original committee. If the modified or new thesis also fails to meet the requirements of the program, the student shall be dismissed from the graduate program.

If only one of the three committee members dissent, that individual must submit a letter outlining the reasons for their dissent to the student’s advisor. The advisor and student may then prepare a rebuttal statement that is submitted, along with the letter of dissent, to the advisory or executive committee of the program for review. The advisory committee can then decide to accept or reject the rebuttal statement. If the rebuttal is accepted, the student is passed on their thesis defense. If the rebuttal is rejected, the advisory committee can recommend to the student or advisor potential steps necessary to remediate the thesis and potentially the work therein, or the committee can recommend that the student be dismissed from the program.

**Thesis Defense**

Under Plan I, the final examination should take the form of a presentation and public defense of the thesis, followed by an examination of the candidate’s comprehensive knowledge of the field. The time, date, and location of this examination is reported to the Graduate School via the online Request for Thesis or Dissertation Approval forms and must be submitted at least 10 days before the public defense. The meeting must be appropriately announced on campus, must be open to all interested parties, and must take place before the posted semester Thesis or Dissertation defense deadline.

The final examination for Plan II students should take the form of a comprehensive survey of the candidate’s activities in the graduate program. A Plan II final examination is not required in some graduate programs.

**Recommendation for Degree**

Master’s candidates must be recommended for degree to the Graduate School Dean by the graduate study committee or by the student’s advisor and the graduate program director. This recommendation must be received by the published submission dates, available at www.uab.edu/graduate/deadline-dates. Recommendations for degree are based on evaluation of all work performed, the final examination, and the thesis if Plan I was followed. The recommendation will automatically be nullified if the remaining courses needed for the degree are not passed, the candidate fails to maintain good academic standing, the candidate fails to remove all temporary grades from their transcript, or the a Plan I candidate fails to complete their thesis.

**Award of Degree**

Upon approval by the Graduate School Dean and payment of any outstanding financial obligations to the university, the President confers students’ degrees by authority of the Board of Trustees.
Steps Toward Earning a Doctoral Degree

1. Admission to doctoral degree program
2. Selection of faculty advisor
3. Maintenance of good academic standing
4. Appointment of graduate study committee
5. Passing of comprehensive examination
6. IRB and/or IACUC approvals obtained and renewed annually
7. Admission to candidacy—no later than two semesters before expected graduation
8. Application for degree—by the posted deadline available at http://www.uab.edu/graduate/deadline-dates
9. Draft of preliminary version of dissertation
10. Review of the draft by committee members
11. Revisions made to dissertation in response to committee feedback
12. Defense of dissertation (see http://www.uab.edu/graduate/deadline-dates)
13. A PDF of the defended committee-approved dissertation to UAB/ProQuest submission web site—no later than 2 weeks (10 business days) following the published deadline date for the public defense
14. Recommendation for degree
15. Conferring of the doctoral degree

Doctoral Degree Overview

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field of an academic discipline. The first component is demonstrated by successful completion of advanced coursework of both a didactic and an unstructured nature as well as by adequate performance on the comprehensive examination. Traditionally, the student demonstrates the second component by independently performing original research. In certain doctoral programs, performing a major project may be acceptable even though it may not consist of traditional research. However, in all programs, with the exception of DPT and DNP, a dissertation presenting the results of the student’s independent study is required.

The Graduate School also recognizes professional doctorates awarded in preparation for the autonomous practice of a profession. Professional doctorates are accredited programs of study usually designed to prepare students for the delivery of clinical services or to assume specific types of administrative responsibilities. Students in professional doctorate programs must demonstrate competence in clinical practice and/or scholarship but are not required to conduct and defend original independent research. In lieu of a dissertation, students in programs designated as professional doctorate programs are required to demonstrate that they are capable of evaluating existing research, applying it to their professional practice, and expanding the body of knowledge on which their professional practice is based. This requirement is often met by the design and completion of a research or scholarly project submitted in writing and presented formally before the faculty in the program.

Minimum Course Credit Requirements

The Graduate School has minimum course credit requirements for students in doctoral programs. Program requirements for course work may exceed the Graduate School minimum but may not be less than the Graduate School minimum.

If entering with a baccalaureate degree, a student is required to earn a minimum of 72 credit hours comprised of the following:

1. Completion of 48 credit hours of course work prior to candidacy
   - Up to 16 credits of the 48 can be non-dissertation research credits
   - Up to 10 credits can be lab rotation, seminar, or directed study credits
2. Completion of 24 credit hours of research-based work which can be designated as either:
   - Completion of at least two semesters in candidacy and accumulation of at least 24 semester credit hours in 799 dissertation research OR
   - Completion of at least two semesters in candidacy and accumulation of at least 12 semester credit hours in 799 dissertation research AND, either during or before candidacy, 12 semester credit hours in other appropriate research-based coursework which has been approved by the graduate student’s program

If entering with a previously earned master’s degree appropriate to the doctoral degree field, a student is required to earn a minimum of 51 credit hours comprised of the following. These requirements also apply to students with previously earned M.S., D.V.M., D.M.D., D.D.S., etc.:
1. Completion of 27 credit hours of course work prior to candidacy
   • Up to 6 credits of the 27 can be non-dissertation research credits
   • Up to 6 credits can be lab rotation, seminar, or directed study credits

2. Completion of 24 credit hours of research-based work which can be satisfied by either:
   • Completion of at least two semesters in candidacy and accumulation of at least 24 semester credit hours in 799 dissertation research OR
   • Completion of at least two semesters as a student in candidacy and accumulation of at least 12 semester credit hours in 799 dissertation research AND, either during or before candidacy,

Up to 12 credits of course work that have not been applied toward meeting the requirements for an earned degree taken at UAB or other institutions may be used to satisfy these course credit requirements upon approval of the graduate program director and the Graduate School Dean. Courses which have been previously applied toward meeting the requirements of another degree are not eligible to satisfy minimum course credit requirements. The student’s graduate department or program should provide a course planning curriculum worksheet along with the student’s application for degree. This worksheet should detail the courses taken which are intended to be used toward meeting degree requirements.

Residence Requirement

The nature of doctoral study requires close contact between the student and the faculty of the graduate program, and the individual investigation or other special work leading to the dissertation must be performed directly under the guidance and supervision of a full member of the UAB graduate faculty. Therefore, doctoral students must be in residence (enrolled) for three full semesters, including summers, each academic year during a three year period or collectively a minimum of nine semesters if the student has to take a leave of absence or stop out during the course of their doctoral education.

Additional Program Requirements

In consultation with the faculty, the director of each graduate program will specify any additional requirements, such as a reading knowledge of a foreign language or a working knowledge of statistics, that are considered essential to mastery of the academic discipline. Such requirements become conditions for the completion of the degree.

Comprehensive Examination

The scholarly proficiency of a doctoral student in the chosen field of study must be evaluated by comprehensive examination. The conduct of these examinations is the responsibility of the graduate program in which the student is enrolled and may consist of either individual examinations in several appropriate areas or a single combined examination. When both written and oral examinations are given, the written examination should precede the oral so that there is an opportunity for the student to clarify any misunderstanding of the written examination questions. Comprehensive exams should be administered no later than the end of the third year of the student’s program.

Admission Into Degree Candidacy

Admission to candidacy is a formal and important step forward in a student’s pursuit of the doctoral degree. By approving admission to candidacy, the graduate student’s committee indicates its confidence that the student is capable of completing the proposed research project and the doctoral program. When the student has passed their comprehensive examination, satisfied any program requirements for foreign language proficiency or mastered special research tools, and presented to the graduate study committee an acceptable proposal for dissertation research or special study, the committee will recommend to the Graduate School Dean that the student be admitted to degree candidacy. A student must be in good academic standing to be admitted to candidacy and admission to candidacy must take place at least two semesters before the expected completion of the doctoral program. Students must be admitted to candidacy before they can register for dissertation research hours (i.e., 799).

IRB and IACUC Approval

If the research involves human or animal subjects, approval from IRB or IACUC must be documented before admission to candidacy can be approved and IRB/IACUC approvals must be kept current until the research is completed. For ways in which students can be added to a protocol, refer to the Tip Sheet for Students Involved in Research Involving Human or Animal Subjects. The IACUC form must display the appropriate research protocol number.

Application for Degree

Each candidate for a doctoral degree must signify their intention to complete the degree requirements by a particular graduation date by submitting a completed Application for Degree Form, available online at http://www.uab.edu/graduate/online-forms. Because this form is used to document completion of requirements, order the diploma, and include the student’s information in the commencement program, it must be received in the Graduate School Office by the posted deadline on the Graduate School’s website at http://www.uab.edu/graduate/deadline-dates. Because each graduate program may have an earlier deadline, students are also responsible for knowing and abiding by their program deadlines.

All students must be registered for at least one (1) hour of 799 dissertation research credit during the semester in which degree requirements are completed.

If degree candidates are covered by the student health insurance policy, hold an assistantship, or have student loans, it may be necessary to register for a prescribed minimum number of credit hours to retain these benefits. Students should check with the appropriate office(s) if retention of these benefits is a concern.

Dissertation

The results of a candidate’s individual inquiry must be presented in a written dissertation comprising a genuine contribution to knowledge in the particular academic field. The document should also demonstrate the candidate’s acquaintance with the literature of the field and the proper selection and execution of research methodology.

Signatures of committee members and program directors on a student’s approval forms indicate their assurance that they have examined the document and have found that it is of professional quality from all standpoints, including writing quality, technical correctness, and
professional competency, and that the document conforms to acceptable standards of scholarly presentation. The Graduate School is then responsible for ensuring that the final version of the dissertation meets the physical standards required of a permanent, published document and for adherence to the requirements stated in the UAB Format Manual which is available online at http://www.uab.edu/graduate/images/acrobat/forms/theses/FormatManual.pdf.

The final committee-approved dissertation must be submitted for final review as a single PDF no later than 2 weeks (10 business days) following the published deadline date for the public defense. One copy of the signed approval form is submitted to the Graduate School office. Additional information concerning completing graduation requirements and the dissertation submission and publication process is available online at http://www.uab.edu/graduate/theses-and-dissertations-at-uab. The UAB Publication Agreement, Survey of Earned Doctorates, and Graduate School Exit Survey must also be submitted.

Dissertation Defense

The dissertation defense should take the form of a presentation and defense of the dissertation work, which may include an examination of the candidate’s comprehensive knowledge of the field. The time, date, and location of this examination is reported to the Graduate School via the online Request for Thesis or Dissertation Approval forms and must be submitted at least 10 days before the public defense. The meeting must be open to all interested parties, publicized on the UAB campus, and must take place before the posted semester thesis and dissertation defense deadline. In addition, candidates must be registered during the semester in which the final examination is taken.

If, in the opinion of one or two of the five members of the dissertation committee, the student has failed the dissertation defense, there is no consensus to pass. The chair of the committee shall notify the student in writing that the dissertation fails to meet the requirements of the program and will share the reason(s) for failure. If the student resubmits or submits a revised dissertation for consideration by their graduate program, at least three members of the new examining committee shall be drawn from the original committee. If the revised dissertation also fails to meet the requirements of the program, the student shall be dismissed from the graduate program.

In the event that only one of the five committee members dissent, that individual must submit a letter outlining the reason(s) for their dissent to the student’s advisor. The advisor and student may then prepare a rebuttal statement that is submitted, along with the letter of dissent, to the advisory or executive committee of the program for review. The advisory committee can then decide to accept or reject the rebuttal statement. If the rebuttal is accepted, the student is passed on their dissertation defense. If the rebuttal is rejected, the advisory committee can recommend to the student or advisor potential steps necessary to remediate the dissertation and potentially also the work therein, or the committee can recommend that the student be dismissed from the program.

Graduate Student Exit Survey

Doctoral graduates are required to take the Graduate School Exit Survey as part of graduation requirements. Collecting important information and feedback from graduate students will help to improve the quality of graduate program offerings. After submission of the revised version of a student’s final dissertation, they will be contacted via email and provided the secure link to take the electronic survey.

Recommendation for Degree

Doctoral candidates must be recommended for degree to the Graduate School Dean by the graduate study committee and the graduate program director. This recommendation, in the form of a signed approval form, must be received no later than the submission dates published on the Graduate School website at http://www.uab.edu/graduate/deadline-dates. Candidates must be in good academic standing, with no temporary grades for courses required for the degree on their transcripts, or any outstanding balance on their student account to graduate.

Award of Degree

Upon approval by the Graduate School Dean and payment of any outstanding financial obligations to the university, the President confers students’ degrees by authority of the Board of Trustees.

Graduate Level Postbaccalaureate or Post-Master’s Certificates

Several UAB graduate programs offer Certificates which do not involve conferral of either a Masters or Doctoral degree. Earning a certificate usually involves taking a specific set of graduate level courses which is designed to provide the Certificate holder expertise in a specialty area of a profession or practice. Certificate programs often consist of 12 or more credits of course work. In some cases the nature of the course work is specified by skill requirements, or may be mandated by State level requirements, for example, by the Alabama State Department of Education.

Certificate requirements vary by discipline. Therefore students should determine what the requirements are of the Certificate program in which they are interested by communicating directly with the program director of the program in which the Certificate is offered. In general, financial aid is not available for certificate programs.

Financial Information

Tuition and Fees

Graduate Courses

The Detailed Tuition and Fee Schedule is available online http://www.uab.edu/shp/home/admissions-tuition/tuition/tuition-fees under Graduate Programs.

Estimated Tuition and Fees

To ascertain Tuition and Fees 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. Payments can also be made in Student Accounting Services located on the ground level of the Lister Hill Library. 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.
Lister Hill Library G10
Birmingham, AL 35294-0013
(205) 934-3570

Assistantships and Fellowships

In many programs, graduate student awards are available in limited number in the form of assistantships, which require service to the department, or fellowships, which do not require service. The Graduate School also assists students in preparation of applications for extramural fellowships. The university’s Financial Aid Office administers traditional loan, grant, and work-study programs, and students in certain graduate programs may participate in UAB’s Cooperative Education Program, combining their studies with paid work experiences. Only degree-seeking graduate students who are registered for at least 5 hours of graduate coursework are eligible for financial aid. For information concerning these programs, contact the Office of Student Financial Aid at (205) 934-8223, or via email at finaid@uab.edu. Students can also visit the office in the Lister Hill Library G20, 1700 University Blvd or view information online at https://www.uab.edu/students/paying-for-uab/.

Veterans

Enrolled veterans and dependents who are eligible for federal educational benefits through the Department of Veterans Affairs should apply online at the VA website, www.Gibill.va.gov. UAB-VA is responsible for verifying enrollment and semester hours and forwarding the information to the Regional VA office. For more information about federal educational benefits, contact UAB-VA in the Office of Veteran Recruitment and Student Services at (205) 934-8804 or via email at veteransaffairs@uab.edu. Students can also visit the office in the Hill Student Center, Room 313, 1400 University Boulevard.

Withdrawing from Courses

To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and the UAB Class Schedule and receive a grade of W (withdrawn). 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. The student must submit a completed withdrawal form to the Office of the Registrar. This office will date stamp the form and return a copy. These documents should be carefully retained by the student. The date printed on the receipt is the official date of withdrawal.

In extraordinary circumstances, if it is impossible for the student to withdraw online or obtain an official withdrawal form, 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 Graduate Catalog and the current UAB Class Schedule. The Graduate Dean 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 at http://www.uab.edu/graduate/images/acrobat/forms/acadappeal.pdf. 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 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

Graduate School
1700 University Boulevard
G03 Lister Hill Library
Birmingham, AL 35294-0013
(205) 934-8227

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/financialaid. 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 https://www.uab.edu/financialaid.

Federal Direct PLUS Loan for Graduate and Professional Students

This is a non-need-based loan with a fixed rate of 7.21%. Annual loan limits are the cost of living minus other aid.

Student and Faculty Educational Opportunities

Research participation and science education programs administered by Oak Ridge Institute for Science and Education (ORISE).

UAB Financial Information

UAB Graduate Family Assistance Scholarship

Scholarship funds will be provided to graduate students who have family-related financial commitments that would, if not resolved, prevent them from enrolling in a degree-granting graduate program. ONLY INCOMING STUDENTS WHO ARE ALREADY ACCEPTED INTO A RESEARCH BASED DOCTORAL PROGRAM ARE ELIGIBLE TO APPLY.

Comprehensive Minority Faculty and Student Development Program (CMFSDP) Fellowships

Graduate Fellowships are available to qualified African American students, newly enrolled at UAB and seeking to earn a Ph.D. degree.

License to Learn Scholarship

UAB National Alumni Society License To Learn Scholarships are designed to provide additional financial aid to currently enrolled, undergraduate and graduate level UAB students.

Joseph F. Volker Alumni Scholarship

In an effort to recognize the accomplishments of currently enrolled UAB students, the UAB National Alumni Society established a scholarship award program named in honor of the late Dr. Joseph F. Volker.

Distinguished Alumni Scholarship

Distinguished Alumni Scholarship The Student Relations Committee established a new scholarship endowment in 1994 to honor the Society’s Distinguished Alumni Award recipients.

Dr. Charles A. McCallum International Scholarship

This scholarship is awarded annually to recognize UAB National Alumni Society international chapters located in Thailand and Taiwan, and to honor Dr. Charles “Scotty” McCallum, UAB president emeritus, who helped to establish these two chapters.

BBVA Compass Mortgage Graduate Student Scholarship

For graduate students.

Other Sources of Financial Aid

Funding Links

Revised PHS 398 and PHS 2590 Forms
Community of Science
The Foundation Center
National Science Foundation
NSF Graduate Research Fellowship Program
GrantsNet
ScienceCareers
Academic Position Network
Employment Resources from the Alabama Department of Rehabilitation
Guidance on job searching and lists of available state jobs

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 Graduate School 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/).

**Graduate Assistantships and Fellowships**

**Responsibilities of the Graduate Assistant or Trainee**

A fundamental responsibility of a graduate assistant is to work closely with their faculty supervisor in carrying out research or teaching activities, while at the same time making good progress toward the completion of the degree program. If a student’s assistantship responsibilities and academic program are properly coordinated, these responsibilities will be compatible. The assistant should articulate their goals early in the term of appointment and work with their supervisor to achieve them. The graduate assistant is obligated at all times to maintain high ethical standards in academic and nonacademic activities, and to report violations of these to the faculty supervisor. The graduate assistant should stay well informed of departmental, school, and institutional regulations, and follow them consistently. If problems arise in the assistantship assignments, the graduate assistant should seek help first from the faculty supervisor. If problems cannot be resolved, the student should consult the Program Director. In general, graduate assistants are expected to be available in the periods between academic terms.

**Full-Time Enrollment**

Students who are receiving a graduate assistantship or fellowship are required to be enrolled as a full-time graduate student for a full academic year (fall, spring and summer semesters). Full-time enrollment is defined as:

- at least 9 semester hours in the fall and spring semesters, and
- registration for credit hours in the summer at a minimum level established by the academic unit (school, college, department or graduate program). Students should consult with their program director before registering for summer credit hours.

Students enrolled in programs that traditionally only offer course work and research opportunities during fall and spring semesters are considered to be full-time even if they do not enroll during the summer terms.

**Graduate Assistant Leave**

Graduate assistants are entitled to the following short-term leaves:

- A maximum of 15 calendar days (one-half month) paid leave of absence (vacation) per calendar year,
- 3 calendar days paid sick leave of absence per calendar year, and
- Parental leave of absence (with pay) of 30 consecutive days per calendar year upon the birth or adoption of a child. Either or both parents are eligible for parental leave. NOTE: Graduate students (Trainees and Assistants) are not eligible for FMLA.

Vacation, sick and parental leaves do not accrue over calendar years. All leave must be requested and require approval by the student’s mentor and graduate program director. With the agreement of the mentor and graduate program director, extended, unpaid, non-emergency absences from campus for periods up to a month may be approved. Extended absences (without pay) for non-academic purposes should be limited.

Program policies regarding leaves of absence must apply equitably to all full time students in good standing in the program. Students should consult the Graduate School’s policy concerning leaves of academic absence (p. 16). In emergencies, graduate assistants should inform their mentors or program directors as soon as possible about the need for a leave of academic absence.

**Student Life**

Graduate students at UAB have many opportunities to become involved in the life of the university. Information about additional groups, both on and off campus, can be found in the UAB Student Handbook, Direction at http://www.uab.edu/handbook/.

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 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 Involvement & Leadership**

205-934-8020
encourage students to comment, ask questions, and seek advice from industry representatives; establish an interface between academia and outside academia. Its goals are to provide a forum for networking with dedicated to fostering a greater awareness of career opportunities student run informal discussion group open to all graduate students by the UAB Graduate School. The GCAT is a student-initiated and UAB Graduate Career Awareness Trends at the GSRD Web site (www.uab.edu/graduate/researchday).

Information regarding participating in the GSRD competition is available which graduate students present their original research in an open forum. Graduate Student Research Days (GSRD) is an annual competition in Graduate Student Research Days (www.uab.edu/gsg).

Assistance Fund and travel grants may be obtained on the GSG Web site (www.uab.edu/gsg). Student Orientation. Information on the Graduate Student Medical Honors Convocation, Graduate Student Research Days, and Graduate organization co-sponsors a variety of services and activities, including the partial funding for graduate student travel to professional meetings. The GSG provides representatives from the various graduate programs. The GSG provides members of the GSG, and the GSG Senate is composed of student representatives from the various graduate programs. The GSG provides partial funding for graduate student travel to professional meetings. The organization co-sponsors a variety of services and activities, including the Honors Convocation, Graduate Student Research Days, and Graduate Student Orientation. Information on the Graduate Student Medical Assistance Fund and travel grants may be obtained on the GSG Web site (www.uab.edu/gsg).

Black Graduate Student Association

The Black Graduate Student Association (BGSA) was founded in 1993 and is dedicated to the pursuit of academic excellence and social and political awareness with respect to African-Americans at UAB.

The BGSA sponsors social events, pertinent forums dedicated to issues of interest in the African-American community at our Black Lecture Series “Meeting of the Minds,” activism opportunities, and an annual conference. For detailed information about the BGSA, visit the Web site at http://www.uab.edu/bgsa/.

Graduate Student Government

UAB graduate students are represented by the Graduate Student Government (GSG), which works closely with the Graduate School and other offices of the university administration in formulating policies and meeting student needs. All graduate students are automatically members of the GSG, and the GSG Senate is composed of student representatives from the various graduate programs. The GSG provides funding for graduate student travel to professional meetings. The organization co-sponsors a variety of services and activities, including the Honors Convocation, Graduate Student Research Days, and Graduate Student Orientation. Information on the Graduate Student Medical Assistance Fund and travel grants may be obtained on the GSG Web site (www.uab.edu/gsg).

Graduate Student Research Days

Graduate Student Research Days (GSRD) is an annual competition in which graduate students present their original research in an open forum. Information regarding participating in the GSRD competition is available at the GSRD Web site (www.uab.edu/graduate/researchday).

UAB Graduate Career Awareness Trends

The UAB GCAT, previously called the Industry Roundtable, is sponsored by the UAB Graduate School. The GCAT is a student-initiated and student run informal discussion group open to all graduate students and dedicated to fostering a greater awareness of career opportunities outside academia. Its goals are to provide a forum for networking with industry representatives; establish an interface between academia and industry; introduce students to the process of making industry contacts; encourage students to comment, ask questions, and seek advice from non- academics; stimulate students to begin career development early in their educational experience; and provide information to students about career opportunities outside academe. More information regarding the GCAT can be found at http://www.uab.edu/gcat/.

Student Advocacy, Rights and Conduct

The Office of Student Advocacy, Rights and Conduct aims to provide developmental learning, holistic engagement, and preventative education to every member of the UAB community. The Student Advocacy, Rights and Conduct staff aims to:

- Work with students to help identify and overcome barriers to success
- Help students get connected to campus and community resources
- Serve as advocates to help students navigate the university system
- Provide referrals for longer-term care
- Conduct outreach and education to students and other campus community partners on relevant issues students may face
- Serve in consultation with staff, faculty, students, and families
- Interpret and uphold the University Non-Academic Code of Conduct to provide a safe and inclusive campus community environment

For more information, contact the Student Advocacy, Rights and Conduct, sarc@uab.edu (205) 975-9509, or 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 UAB Information Center, located in the Residence Life Center at Blazer Hall or refer to the UAB student handbook. Direction, at www.uab.edu/students/ and on BlazerNET on the Student Resources tab.

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 volleyball); four aerobics studios; one performance studio; 18,000 square feet of weight and cardio-fitness areas; a game room; Kid Zone; an aquatic 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

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. (cfaus@uab.edu)

Fitness & Wellness Services

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!
• 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!

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 krickels@uab.edu and complete the Health History Questionnaire as well as the Fitness Assessment Form prior to the appointment.

Personal Training

Do you want to get back into shape or simply looking to kick start a new workout? Personal Training is the service for you! Here at the UAB Campus Recreation Center we offer a variety of Personal Training...
packages for both members and students. Check out our Personal Training now for complete pricing, packing, and details.

**Massage Therapy Services**

Celebrate a little YOU time by scheduling yourself a massage today! Appointments are available for 30 or 60 minutes and are performed by certified massage therapists. Choose from a variety of massage packages in order to customize the perfect relaxation for you. Massage therapy appointments are based upon the therapists’ schedules and availability. Please allow at least 24 hours advanced notice of your preferred appointment time in order for us to best schedule your appointment.

For more information or to schedule your next appointment, please email a completed Health History Form and preferred days/times for your appointment to fitness@uab.edu today!

**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 or contact intramurals@uab.edu.

Want to sign up?

**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.

*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 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 or contact spettigr@uab.edu.

**Adventures Recreation**

Adventure Recreation offers outdoor trips and clinics throughout the year including; kayaking, backpacking, camping, climbing, canoeing and whitewater rafting. Also offered are belt 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 workplace 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 Commons on the Green next to the Den. Or call (205) 996-6567. You can also visit us online at www.uab.edu/dining/.

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 more information 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.

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 as well as Lister Hill Library of the Health Sciences, which includes Lister Hill Library at University Hospital and UAB Historical Collections’ Reynolds-Finley Historical Library, UAB Archives, and the Alabama Museum of the Health Sciences. 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

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. 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

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, UAB Archives, and the Alabama Museum of the Health Sciences. 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 or the Alabama Museum of the Health Sciences. Call (205) 934-1896 for more information on UAB Archives.

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

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

University Writing Center

Located on the first floor of Mervyn Sterne Library, the University Writing Center (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 and log onto the online scheduling system with your Blazer ID and password. Like the UWC’s Facebook page and follow the UWC’s Twitter page to stay in touch and find out about upcoming workshops.

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

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 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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
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<tbody>
<tr>
<td>INAB</td>
<td>Study Abroad Arabic</td>
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<tr>
<td>INAH</td>
<td>Study Abroad Art History</td>
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<tr>
<td>INAN</td>
<td>Study Abroad Anthropology</td>
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<tr>
<td>INAR</td>
<td>Study Abroad Art Studio</td>
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<td>INAT</td>
<td>Study Abroad Astronomy</td>
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<td>INBE</td>
<td>Study Abroad Biomedical Engineering</td>
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<td>INBU</td>
<td>Study Abroad Business</td>
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<td>INBY</td>
<td>Study Abroad Biology</td>
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<td>INCH</td>
<td>Study Abroad Chinese</td>
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<tr>
<td>INCM</td>
<td>Study Abroad Communication Studies</td>
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<tr>
<td>INCS</td>
<td>Study Abroad Computer &amp; Information Science</td>
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<tr>
<td>INCY</td>
<td>Study Abroad Chemistry</td>
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<tr>
<td>INDC</td>
<td>Study Abroad Digital Community</td>
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<tr>
<td>INEC</td>
<td>Study Abroad Economics</td>
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<tr>
<td>INED</td>
<td>Study Abroad Education</td>
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<tr>
<td>INEE</td>
<td>Study Abroad Electrical Engineering</td>
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<td>INEH</td>
<td>Study Abroad English</td>
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<tr>
<td>INES</td>
<td>Study Abroad Earth Science</td>
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<tr>
<td>INEV</td>
<td>Study Abroad Environmental Science</td>
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<td>INFN</td>
<td>Study Abroad Finance</td>
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<td>INFR</td>
<td>Study Abroad French</td>
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<tr>
<td>INGN</td>
<td>Study Abroad German</td>
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<tr>
<td>INHY</td>
<td>Study Abroad History</td>
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<tr>
<td>INIS</td>
<td>Study Abroad International Studies</td>
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<tr>
<td>INIT</td>
<td>Study Abroad Italian</td>
</tr>
<tr>
<td>INJP</td>
<td>Study Abroad Japanese</td>
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<tr>
<td>INJS</td>
<td>Study Abroad Justice Sciences</td>
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<tr>
<td>INMA</td>
<td>Study Abroad Mathematics</td>
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<tr>
<td>INME</td>
<td>Study Abroad Mechanical Engineering</td>
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<tr>
<td>INMG</td>
<td>Study Abroad Management</td>
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<td>INMK</td>
<td>Study Abroad Marketing</td>
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<td>INMU</td>
<td>Study Abroad Music</td>
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<tr>
<td>INPC</td>
<td>Study Abroad Physics</td>
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</table>
INPE  | Study Abroad Physical Education  
INPH  | Study Abroad Philosophy  
INPS  | Study Abroad Political Science  
INPY  | Study Abroad Psychology  
INSC  | Study Abroad Sociology  
INSP  | Study Abroad Spanish  
INTH  | Study Abroad Theatre  
INTL  | Study Abroad Special Topics  

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 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 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.

International Student and Scholar Services

International Student and Scholars Services (ISSSS) 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.

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
Wellness programs, group opportunities, and educational resources. In addition to individual and couples counseling, services include trauma. In addition to individual and couples counseling, services include academic, spiritual, psychosocial, emotional, and vocational areas. 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.

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.

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.

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 the patient portal. You may also call (205) 934-3580 to schedule an appointment or for general information.

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 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

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<tr>
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The Student Health & Wellness Center is closed daily from 12 pm to 1 pm for lunch.

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 Blazer Express has convenient drop-off and pick-up locations near the Student Health & Wellness Center. Parking is available at the South entrance to the building.

Motorist Assistance Roadside Service (MARS) has 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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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

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

Collat School of Business

Dean: Dr. Eric P. Jack

The Collat School of Business offers the following graduate programs:

Degree Programs

- Master of Accounting (M.Ac.)
- Master of Business Administration (M.B.A.)
- Master of Science in Management Information Systems (M.S.MIS) - Online only

Certificate Programs

- Graduate Certificate in Social Media
- Graduate Certificate in Technology Commercialization and Entrepreneurship

Located in the heart of Alabama's business center, the UAB Collat School of Business offers an engaging learning environment with classrooms extending well beyond the walls of the UAB campus. Our unique location allows our faculty to integrate the practical experiences of the State’s leading companies - from Fortune 500 corporations to entrepreneurial start-ups - into the programs we offer. Our students gain valuable, real-world experience through a wide variety of internships and other opportunities in the business community.

The UAB Collat School of Business is accredited at the baccalaureate and master's level by AACSB International and holds separate AACSB International accreditation of the undergraduate and master's programs in accounting. AACSB International is the largest and longest standing specialized accrediting agency for business and accounting programs in the world and represents the highest standard of achievement. UAB is among only 184 universities worldwide to achieve this seal of excellence in both business and accounting.

*For additional information about our programs or updates approved prior to the publication of a new Graduate Catalog, please see the Collat School of Business website.

Accounting and Finance

Degree Offered: Master of Accounting

Director: Dr. James Byrd
Phone: (205) 934-8829
E-mail: jimbyrd@uab.edu
Web site: www.uab.edu/mac

Admission

Prospective students should use this checklist to obtain specific requirements for applying to Graduate School.

Application Deadlines*

*Deadlines for On-campus Master of Accounting Program:
Fall semester: July 1st
Spring semester: November 1st
Summer semester: April 1st

*Deadlines for the Online Master of Accounting Program:
Fall semester: July 15th
Spring semester: November 20th
Summer semester: April 1st

Required Documents

- Application form including 2 evaluation forms/letters of reference
- Current resume detailing work experience
- Official transcripts from all colleges and universities attended sent directly by the Registrar or responsible head of the institution to the UAB Graduate School, 1720 2nd Ave. S., LHL G03, Birmingham, AL 35294-0013.
- GMAT score* sent directly from the testing agency.

International Applicants

The following additional documents are required of international applicants:

A minimum composite score of 80 with a minimum score of 20 in each section of the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service (ETS, www.toefl.org) within the five-year period immediately preceding the desired term of enrollment. We will also accept an IELTS score of 6 in lieu of the TOEFL.

A transcript evaluation report prepared by Educational Credential Evaluators, Inc. (ECE, www.ece.org) or World Education Services (WES, www.wes.org)
Admission Requirements

1. A bachelor's degree in accounting from an institution accredited by AACSB International received within the five-year period immediately preceding the desired term of enrollment (or a bachelor's degree in any discipline from a regionally accredited institution). Applicants who do not have an undergraduate accounting degree will be required to complete up to nine foundation courses in addition to the classes listed in the Program Description section and will be required to earn at least a B in the foundation courses numbered 300 and above. The foundation courses that must be completed are as follows:

   - AC 200 Principles of Accounting I
   - AC 201 Principles of Accounting II
   - AC 300 Financial Accounting I
   - AC 304 Accounting Information Systems
   - AC 310 Financial Accounting II
   - AC 401 Cost Accounting
   - AC 402 Income Taxation I
   - AC 423 External Auditing
   - AC 430 Financial Accounting III

2. A minimum score of 500 on the Graduate Management Admission Test (GMAT) administered by the Graduate Management Admission Council (GMAC, www.gmac.com) within the five-year period immediately preceding the desired term of enrollment. The GMAT is waived for UAB accounting graduates and other students who take all of the foundation accounting courses at the undergraduate level at UAB. The GMAT requirement may also be waived by the M.Ac. Director if one of the following conditions apply:

   - Applicant earned or will have earned an undergraduate accounting degree from an AACSB accredited institution.
   - Applicant is completing the accounting bridge program at UAB.
   - Applicant has an advanced degree in a business related field (e.g. MBA) from an AACSB accredited institution.
   - Applicant has a terminal degree in another discipline.
   - Applicant has a professional accounting certification (CPA or equivalent) which requires continuing professional education.
   - Applicant has significant (3-5 years) experience at the executive level.

3. Satisfactory academic performance as measured by the undergraduate accounting grade point average. [Note: UAB undergraduates planning to pursue the M.Ac. degree should take AC 423 as their accounting elective. If they do not take AC 423, they should plan to take AC 523 as an elective in the M.Ac. program before taking AC 606.] The Department of Accounting and Finance (ACFN) in the Collat School of Business is proud to offer a Master of Accounting (M.Ac.) program that holds a separate accreditation by the Association of Advance Collegiate Schools of Business (AACSB), the highest honor a business school can achieve for its accounting programs.

   Courses in the program are offered in the classroom primarily in an evening format, with some classes having an online option. A completely online program is also offered. More information on the online program can be found at businessdegrees.uab.edu.

   High-achieving UAB accounting undergraduate students interested in pursuing the M.Ac. degree should look into the UAB Fast-Track Master of Accounting Program.

Fast-Track Master of Accounting Program

The Fast-track Master of Accounting (M.Ac.) Program is open to high-achieving undergraduate students pursuing a BS degree in accounting at UAB. Students admitted to the Fast-Track M.Ac. Program can take up to 12 hours of graduate courses at undergraduate tuition rates while they are completing their Bachelor's degree in accounting and have these graduate courses count toward the M.Ac. degree as long as A's or B's are earned in the courses. After earning the BS degree, students in the Fast-Track Program continue pursuing the M.Ac. degree as described above. Students in the Fast-Track M.Ac. program are not required to take the GMAT.

Fast-Track M.Ac. Program Admission Requirements

To be admitted to the Fast-Track Master of Accounting Program, students must:

   - Have completed at least 15 hours of coursework at UAB.
   - Be within 45 hours of graduation.
   - Have a cumulative GPA of 3.4 or higher.
   - Have completed the following courses with at least a “B” in each course and have at least a 3.3 average in the three courses:

      - AC 300 Financial Accounting I
      - AC 304 Accounting Information Systems
      - AC 310 Financial Accounting II

Students who think they are eligible for the Fast-Track M.Ac. Program should contact the M.Ac. Program Director at the Collat School of Business.

Master of Accounting Program

The Master of Accounting program consists of 30 semester hours of graduate credit - 21 hours of required courses and 9 hours of approved electives:

Required courses (7):

   LS 557 Business Law for Accountants
   AC 514 Governmental and Not-for-Profit Accounting
   AC 580 Advanced Financial Accounting
   AC 600 Current Topics in Financial Accounting
   AC 606 Advanced Auditing and Attestation
   AC 620 Tax Entities
   AC 672 Advanced Information Technology Auditing or AC 612 Corporate Governance
Uniform CPA Examination

Eligibility requirements for sitting for the Uniform CPA examination vary among the states. The state of Alabama, through its Accountancy Laws and the Alabama State Board of Public Accountancy (ASBPA, www.asbpa.alabama.gov/), requires that applicants for the Uniform CPA Examination hold a baccalaureate degree from an accredited institution and possess a total of 120 semester hours of postsecondary education, including at least 33 semester hours of accounting in specified areas at the upper-division or graduate level. However, 150 hours will still be required for certification effective January 1, 2016. UAB students can meet these requirements in several ways:

1. By obtaining an undergraduate accounting degree (or its equivalent) and completing certain additional course work as specified under the Board’s Accountancy Rules. Students interested in this option and those interested in this option who already hold degrees from other institutions should contact the accounting advisor in the Collat School of Business, for specific guidance.

2. By obtaining a Master of Accounting degree. Those who hold a Master of Accounting degree from an accounting program accredited by AACSB International (as is UAB’s) meet the academic requirements for taking the Uniform CPA Examination.

3. By obtaining a Master of Business Administration degree. Those who already hold an undergraduate accounting degree (or its equivalent) and who desire a graduate degree in business may establish their academic eligibility under the Board’s Accountancy Rules by completing as part of their M.B.A. requirements certain graduate accounting course work as determined by the Master of Accounting Program Director. Students interested in this option should first contact the Program Coordinator in the Graduate School of Management.

Other Professional Accounting Certifications

Other examinations leading to professional certification (CMA, CIA, CFE, CISA, etc.) generally do not require academic course work beyond the baccalaureate degree. Students interested in other accounting certifications should contact any of the faculty for further information.

Business Administration

| Degree Offered: | Master of Business Administration (M.B.A.) |
| Director: | Kenneth L. Miller, MBA. EdD |
| Phone: | (205) 934-8855 |
| E-mail: | klmiller@uab.edu |
| Web site: | http://www.uab.edu/mba |

Admission

Prospective students should use this checklist to obtain specific requirements for applying to Graduate School.

Application Deadlines

Fall semester - July 1st
Spring semester - November 1st
Summer semester- April 1st

*International applicants should apply at least 6 months in advance of the deadline in order to ensure processing of all Visa paperwork.

Required Documents

- Application form including 2 evaluation forms/letters of reference
- Current resume detailing work experience
- Official transcripts from all colleges and universities attended sent directly by the Registrar or responsible head of the institution to the UAB Graduate School, 1720 2nd Ave. S., LHL G03, Birmingham, AL 35294-0013.
- GMAT score* sent directly from the testing agency. (it is recommended that you repeat the GMAT if score is below 480)

*GMAT requirement is waived for applicants holding terminal degrees. Applicants holding master degrees from regionally accredited institutions may be considered for a waiver as long as a comparable standardized test was required for entry into their program.

Additional Documents Required for International Applicants

- TOEFL IBT score of 80 or IELTS of 6 (international applicants only)
- General academic credentials evaluation (ECE or WES report) for international applicants

Non-Degree Seeking Admission

Candidates interested in non-degree seeking admission must have an undergraduate cumulative GPA of 3.0 or higher. Non-degree seeking students are limited to earning 12 hours credit in this status. The option to enter as non-degree seeking will be offered to candidates who miss the application deadline for applying to the MBA program, but who submit all materials prior to the beginning of the term and meet admission requirements, provided that there are seats available. We will require a resume, copies of transcripts, and GMAT scores along with the application. Permission of the MBA Coordinator is needed in order to register for classes as a non-degree seeking student.

Contact the UAB Collat School of Business, Graduate School of Management with any questions concerning UAB’s MBA program.

Master of Business Administration

The UAB MBA is designed to provide competency in management and to acquaint the student with all aspects of business activity. In order to deal effectively with increasingly complex and ambiguous problems of business and organizations, managers require training in sophisticated analytical techniques, appreciation for the behavioral facets of management, as well as an ability to anticipate and adapt to changes.
in an industrial environment. The program stresses critical thinking and is
decision oriented, focusing on key aspects of business administration.

The MBA program is suitable not only for students with baccalaureate
degrees in business but also for those who have degrees in engineering,
the sciences, or liberal arts.

UAB's MBA program offers evening classes that meet once a week
and online courses. Students may choose to follow either a one or two-year-
plan of study to guarantee graduation with a specified timeframe, or
pursue the degree at their own pace. Students have 5 years from term of
entry to complete degree requirements.

Concentrations are available in finance, information technology
management, marketing, and health services. Dual Degree options
available include MD/MBA, DMD/MBA, OD/MBA, MPH/MBA and MSHA/
MBA and require applicants to apply and be accepted to both degree
programs.

Quantitative Requirement

Applicants are expected to have completed a pre-calculus class with a
grade of "C" or better within the last five years. If an applicant does not
meet this requirement, they may be admitted with the contingency of
satisfying the requirement before their first term of enrollment.

More information about this can be found on the Collat School of
Business website.

MBA Degree Requirements

Total Hours for Degree: 36 (12 courses)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tools and Perspectives on Business (12 Hours)</td>
<td></td>
</tr>
<tr>
<td>MBA 601 Accounting and Finance for Managers</td>
<td>3</td>
</tr>
<tr>
<td>MBA 631 Management and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MBA 642 Economics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>MBA 662 Quantitative Analysis for Business Managers</td>
<td>3</td>
</tr>
<tr>
<td>Functional Core (15 Hours)</td>
<td></td>
</tr>
<tr>
<td>MBA 608 Strategic Cost Analysis and Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MBA 619 Information Technology and Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MBA 621 Topics in Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MBA 637 Operations and Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 651 Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>Capstone (3 Hours)</td>
<td></td>
</tr>
<tr>
<td>MBA 634 Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives (6 Hours)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 36

Degree with Concentration requires additional
approved elective in selected area of study: 39
Total Hours (13 Courses). Concentrations are
offered in Finance, Health Services, Information
Systems, and Marketing.

MBA Plans of Study (Full Time 1-Year-Plan and
Part time 2-Year-Plan)

Management, Information
Systems, and Quantitative
Methods

Degree Offered: Master of Science in Management
Information Systems (MS MIS)

Director: Allen Johnston
Phone: (205) 934-8870
Email: ajohnston@uab.edu
Web site: http://misdegree.businessdegrees.uab.edu/
lp-mis-short/

Admission

Prospective students should use this checklist to obtain specific
requirements for applying to Graduate School.

Application Deadlines

Fall semester - July 15th
Spring semester - November 15th
Summer semester- April 15th

Required Documents

- Online application with a $45 application fee or $60 international
  application fee
- Current resume
- Personal Statement: statement must include the student's
  professional career goals and how they faced and overcame
  challenges in their life
- References: 2 from supervisors, trainers, or instructors who
  can confirm requisite knowledge and skills as identified with the
  admission qualifications

Admission Requirements

Applicants for the MS MIS program must have graduated with a
baccalaureate degree in an information technology/systems related field
from a regionally accredited college or university with a minimum overall
grade point average (GPA) of 3.0 on a 4.0 scale. Those not meeting this
requirement must have:

- Completed a baccalaureate degree in other areas of study from a
  regionally accredited college or university, or completed another
  graduate degree; AND
- Completed the UAB MS MIS Bridge Program; OR
- Submitted evidence to UAB as to significant work experience in IS/
  IT/computer programming, enterprise systems, databases, and/or
  system design and analysis; OR
- Submitted evidence to UAB as to IS/IT/Computer industry
  certifications in computer programming, enterprise systems,
  databases, and/or system design and analysis.
- Applicants must provide evidence of relevant work experience (a
  minimum of 3 years of experience is preferred)
- Applicants must have a GMAT score of 500 or higher.

Those not meeting this requirement can:
• Submit a GRE combined verbal and quantitative score of 940 or higher (GRE scores many not be more than 5 years old), OR
• Show 5 years of relevant work experience
• Show documentation of completing a graduate degree in any discipline with a minimum GPA of 3.0 on a 4.0 scale

International Applicants
International applicants whose native language isn’t English are required to show proof of English proficiency by submitting a TOEFL, IELTS, or PTE Academic test score. Official test scores are required and should be sent directly from the testing agency to UAB. Scores should not be more than 2 years old. The minimum score requirements are as follows:

• TOEFL (Test of English as a Foreign Language) score of 550 on the paper-based examination, 213 on the computer-based version, or 80 on the Internet-based version
• IELTS (International English Language Testing Service) score of 6.0 overall with at least a 5.0 on each section of the examination

The UAB Collat School of Business, Master of Science in Management Information Systems (MS MIS) program focuses on the business side of information systems and how to strategically position technology to maximize value for an organization. This program provides the broad perspective needed to advance in the information systems management field, and allows students to tailor their education based on specific career goals by focusing in one of three areas: Web and Mobile Development, Information Security, or IT Management. UAB’s emphasis is on the managerial aspects of information systems, and although the program does provide opportunities for skill development in the latest technologies, the goal of the program is to help those currently working in information systems related fields move into managerial positions by improving their understanding of how to use the latest information technologies to benefit organizational stakeholders, such as managers, organizations, employees, customers and partners.

The Management of Information Systems field is growing at an exponential rate as organizations struggle to stay current with new and emerging technologies, such as mobile applications and social media and business analytics. Professionals are needed that can help organizations understand the business potential of these new technologies, how to develop new applications to meet changing market dynamics, and how to secure these systems from threats. Students graduating from this program are prepared to succeed in an exciting and dynamic career field combining a solid technical information systems foundation with business skills so they can immediately contribute to solving business problems, and can drill down into specific fields, such as IT management, web and mobile development or information security.

Program Details
The MS MIS program is taught completely online. Most students can complete degree requirements within 1.6 years. Concentrations are available in Web and Mobile Development, Information Security, and IT Management. Each concentration consists of twelve semester hours. The Collat School of Business is accredited by AACSB–The Association to Advance Collegiate Schools of Business.

Program Requirements
Core Courses:
IS 611 Information Technology and Business Strategy

Concentrations:
Information Security
IS 620 Attack and Penetration
IS 621 Incident Resp. / Business Continuity
IS 622 CISSP I
IS 623 CISSP II

Web and Mobile Development
IS 630 Web Development
IS 631 Web Interface Design/Content
IS 616 Web Analytics
IS 633 Mobile Applications

IT Management
IS 640 Technology Plans and Capital Budgeting
IS 641 Leadership in IT

Any 2 IS or WDSM Concentration Courses (6 hours)

Management Information Systems

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Master of Science in Management Information Systems (MS MIS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director:</td>
<td>Allen Johnston</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-8870</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:ajohnston@uab.edu">ajohnston@uab.edu</a></td>
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<tbody>
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<td>Core Courses:</td>
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<tr>
<td>IS 611 Information Technology and Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>IS 612 IT Governance and Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 613 Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 615 Soc Media/Virtual Communities</td>
<td>3</td>
</tr>
<tr>
<td>IS 617 Intro to Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>IS 618 IT Project Management</td>
<td>3</td>
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<tr>
<td>Concentration Courses:</td>
<td></td>
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<tr>
<td>Information Security</td>
<td></td>
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<tr>
<td>IS 620 Attack and Penetration</td>
<td>3</td>
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<tr>
<td>IS 621 Incident Response and Business Continuity</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>Any IS or WDSM concentration course</td>
<td>3</td>
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<tr>
<td>Any IS or WDSM concentration course</td>
<td>3</td>
</tr>
<tr>
<td>Bridge Courses:</td>
<td></td>
</tr>
<tr>
<td>IS 591 Intro to Networking / Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>IS 592 Systems Analysis and Database</td>
<td>3</td>
</tr>
</tbody>
</table>

**College of Arts and Sciences**

**Dean:** Dr. Robert E. Palazzo

The College of Arts and Sciences includes departments in the arts, humanities, mathematics, social, behavioral, natural and physical sciences.

The College offers 15 degree programs leading to a master’s degree and 7 programs leading to a doctoral degree. Traditional programs as well as interdisciplinary and graduate level certificate programs help to keep the College on the leading edge of progressive academic offerings. 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 opportunities to be part of the innovative and ground-breaking 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. Students within arts and sciences programs 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.

**Interdisciplinary Programs**

Interdisciplinary programs of study are increasingly popular as we realize the benefits of multiple perspectives and methods to advance understanding and improve solutions. Students in the College of Arts and Sciences may pursue formal interdisciplinary programs such as the Master’s degree in Computer Forensics and Security Management, which involves faculty from the departments of Computer & Information Sciences and Justice Sciences (College of Arts and Sciences), and the Departments of Management, Information Systems Quantitative Methods, and Accounting & Finance (School of Business).

The Departments of Mechanical Engineering and Art & Art History bring their collective expertise and experience together to offer an interdisciplinary Category A certificate program involving an integrated art and engineering curriculum. The Leonardo Art & Engineering Graduate Certificate program provides cross-disciplinary training in simulation, art, visualization, and virtual reality to students with a BS/BA degree in Arts and Sciences, Engineering, Business, or Healthcare-related disciplines for addressing marketing, education/training, entertainment, product development, and design application demand of the 21st century growth area in 3D and VR technologies.

**Computer Forensics and Security Management**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**Program Contact Information**

Dr. Jeffery Walker  
Department of Justice Sciences  
1201 University Blvd.  
Suite 210  
Birmingham, AL 35294-4562  
jefflw@uab.edu

**Program Information**

The Master of Science in Computer Forensics and Security Management (MSCFSM) is an interdisciplinary program that prepares graduates for entry- and advanced-level positions in the field by developing in them the necessary skills crucial for success. The program also provides current
practitioners the opportunity to obtain advanced-level training to facilitate career advancement. The program includes a set of core, required courses (including a field practicum) and the opportunity to select from two areas of specialization.

Admission Requirements

Students accepted into the program will have earned a bachelor’s degree from an accredited college or university or recognized university from abroad. Most of these students will have earned a cumulative undergraduate grade point average (GPA) of 3.0 or higher and a combined score of 300 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE). Applicants whose native language is not English are required to take either the TOEFL or the IELTS and score 80 or higher on the TOEFL or 6.5 or higher on the IELTS. Applicants who earned their bachelor’s degree from UAB or those with 5 or more years’ experience in the field are exempted from taking the GRE.

Students seeking admission to the program who lack a background in computer science or information systems but who meet the remaining minimum requirements for admission may be admitted contingent on them completing a set of prerequisite courses (or their equivalents) that include:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 103   Introduction to Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 103L  Introduction to Computation Lab</td>
<td>0</td>
</tr>
<tr>
<td>IS 204   Introduction to Business Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Degree Requirements

A total of 30 semester hours are required for the degree, consisting of 21 hours of required courses and 9 hours of electives taken in one of two tracks: Cybercrime Investigations or IT Audit/Fraud Examination.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Curriculum (21 hrs.)</td>
<td></td>
</tr>
<tr>
<td>CS 623   Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CS 623L  Network Security Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>CS 636   Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>IS 613   Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>JS 530   Ethics and Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>JS 502   Introduction to Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>JS 675   Law Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>JS 696   Graduate Internship in Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

| Select one of the following tracks: |       |
| Cybercrime Investigations (9 hrs.) |       |
| CS 654   Malware Analysis           | 3     |
| CS 537   Cybercrime and Forensics   | 3     |
| JS 515   Investigating Online Crimes | 3     |

| IT Audit/Fraud Examination (9 hrs.): |       |
| AC 572   Forensic Accounting and Information Technology Auditing | 3     |
| AC 573   Fraud Examination          | 3     |
| LS 571   Legal Elements of Fraud Investigation | 3     |

A typical Plan of Study for a student in the program looks like this:

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### Cybercrime Investigations Track

**First Year**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hour</th>
<th>Second Term</th>
<th>Hour</th>
<th>Final Term</th>
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**Second Year**

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**Total credit hours: 30**

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### IT Audit/Fraud Examination Track

**First Year**

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<tr>
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<td>3</td>
</tr>
<tr>
<td>IS 613</td>
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<td>JS 530</td>
<td>3</td>
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<tr>
<td>JS 502</td>
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<td></td>
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</tr>
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**Second Year**

<table>
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<tr>
<th>First Term</th>
<th>Hour</th>
<th>Second Term</th>
<th>Hour</th>
</tr>
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<tbody>
<tr>
<td>CS 623</td>
<td>3</td>
<td>CS 636</td>
<td>3</td>
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<td>CS 623L</td>
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</tbody>
</table>

**Total credit hours: 30**

---

### Cybercrime Investigations Track

**AC 572. Forensic Accounting and Information Technology 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.

**AC 573. Fraud Examination. 3 Hours.**

Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse--its origins, perpetration, prevention, and detection.

**CS 623. 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.

**CS 623L. Network Security Laboratory. 0 Hours.**

Laboratory to accompany CS 623.

**CS 636. 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.
CS 654. 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.

CS 537. 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.

IS 613. Information Security Management. 3 Hours.
Primary objectives of the course are for the student to 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, and learn how to audit and recover from security breaches.

JS 502. 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 515. 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. (Also CS591).
Prerequisites: JS 502 [Min Grade: C]

JS 530. Ethics and Computer Forensics. 3 Hours.
Overview of different systems of ethics; the role of ethics in computer forensics, cybercrime investigation, and information security; examination of ethical issues facing professionals involved in computer forensics, cybercrime investigation, and information security.

JS 675. Law Evidence and Procedure. 3 Hours.
Overview and examination of the legal aspects of physical evidence, including rules of evidence, procedural rules, and the role of expert witnesses.

JS 696. Graduate Internship in Criminal Justice. 1-6 Hour.
Field experience in criminal justice agency setting. May be repeated for a maximum of 6 hours credit.

LS 571. Legal Elements of Fraud Investigation. 3 Hours.
Key legal principles and courtroom procedures relevant to forensic accounting, and survey of related topics–criminology theories, evidence management, and litigation services.

Leonardo Art & Engineering Graduate Certificate

Contacts
David Littlefield, PhD
Professor and Chairman
littlefield@uab.edu
Department of Mechanical Engineering
BEC 257
1150 10th Avenue South
Birmingham, AL 35294-4461

Leonardo da Vinci is recognized as embodying the concept of the Renaissance Man as he was a painter, sculptor, architect, musician, scientist, mathematician, engineer, and inventor - an accomplished artist of the 16th century and a perfect example of interdisciplinary endeavors.

In this spirit of the Renaissance Person, the Departments of Mechanical Engineering and Art & Art History bring their collective expertise and experience together to offer a new interdisciplinary Category A certificate program involving an integrated art and engineering curriculum.

The Leonardo Art & Engineering program crosses traditional boundaries between academic disciplines and forges new collaborations to create a scholar/scientist/artist ready to meet the demands of the 21st century.

The objectives for the program are to:

- Provide cross-disciplinary training in simulation, art, visualization, and virtual reality to students with a BS/BA degree in Arts and Sciences, Engineering, Business, or Healthcare-related disciplines for addressing marketing, education/training, entertainment, product development, and design application demands of the 21st century growth area in 3D and VR technologies.
- Offer a mechanism for the large number of practicing artists, engineers, healthcare professionals, business managers, and game developers in Alabama and Birmingham to acquire additional training and education in simulation, 3D visualization, and VR.
- Provide a specialized education suitable to the needs of in-state, out-of-state, and international students interested in the application of 3D visualization, VR, and simulation to the industry or business segment of their preference. The program will provide the students with highly specialized and marketable skills.

Program Requirements

- Students must be admitted to either Department in either the undergraduate or graduate program or to the UAB Graduate School as a non-degree seeking student. (Undergraduates may begin work on the certificate in their senior year provided they have satisfied prerequisite requirements and obtained approval from the Graduate School to take graduate level courses. A certificate can only be awarded after completion of the BA or BS degree requirements.)
- Students must be admitted to the Leonardo Art & Engineering Certificate program using the degree-seeking application found on the UAB Graduate School Apply Yourself website.
- Certificate requires a minimum of 18 semester hours.


• Relevant courses taken towards the certificate may be applied to the MS degree offered by the Department of Mechanical Engineering or MA degree offered by the Department of Art & Art History.
• One course, up to three semester hours, may be transferred from another institution. This may be the required course or one of the graduate level courses.
• Courses taken from UA and UAH by IITS may be applied to certificates.

Course Requirements

Total of 18 credit hours, as follows:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 521 Introduction to Computational Fluid Dynamics Basics</td>
<td>3</td>
</tr>
<tr>
<td>or ME 564 Introduction to Finite Element Method</td>
<td></td>
</tr>
<tr>
<td>ME 698 Non-Thesis Research</td>
<td>1-12</td>
</tr>
<tr>
<td>ARS 660 New Media-Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>ARS 661 Survey of Animation</td>
<td>3</td>
</tr>
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<td>ARS 662 Fabrication Laboratory</td>
<td>3</td>
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<td>13-24</td>
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Anthropology

Anthropology is a social science committed to the comparative and historical study of humankind. Anthropology literally means the study of humanity and considers human biological and cultural variation. Courses are offered in the traditional sub-fields of anthropology—Cultural, Biological, Archaeology, and Linguistics—and also in Applied Anthropology.

In recent years, the UAB Anthropology program has begun to develop a topical focus on the Anthropology of Peace, Justice, Human Rights, and Ecology. The new applied focus parallels the establishment of the UAB Institute for Human Rights (IHR) in 2014. The Anthropology Department is the institutional host for the Peaceful Societies web site. For more information about the faculty, researchers, direction, and focus of the department, please see our web pages at: http://www.uab.edu/cas/anthropology/

For Master’s application information, please contact the Graduate Director (contact information appears below) or the Department Chair.

Degree Offered: M.A.
Director: Dr. Loretta Cormier
Phone: (205) 975-6526 or (205) 934-3508
E-Mail: lcormier@uab.edu
Web site: http://www.uab.edu/cas/anthropology/

Degree Requirements

The M.A. degree program includes the basic course requirements, a foreign language or research skill requirement, and the fulfillment of the requirements for either a Plan I (Thesis) or Plan II (Non-thesis) degree.

The UAB Graduate School recognizes two principal paths, called Plan I and Plan II. Upon entry to the program and in consultation with the student’s advisor, either Plan I or II will be designated for each student. A subsequent change in the choice of Plans requires approval of both the Graduate Program Director in Anthropology and of the Dean of the Graduate School.

Basic Course Requirements

Course Work

Each student must complete between 30 and 36 credit hours of courses numbered 500 or above, without special prior approval of the student’s advisor, committee, and the director of graduate studies.

Special Problems courses, including ANTH 691, ANTH 692, ANTH 693, and ANTH 694, cannot be counted towards the minimum 30 hours. (Note that there are additional course requirements for two of the three options outlined below).

Core Curriculum

For information about the Curriculum, please contact either the Graduate Director or the Department Chair.

M.A. Committee

Upon entry to the Anthropology Master’s Program, each degree-seeking student will be assigned a member of the anthropology faculty to serve as the student’s advisor. This may be a temporary assignment and later changed. The student and the assigned advisor should confer about the student’s interests and develop a plan of study. Traditionally, graduate study is flexible and individualized to allow students to pursue their interests. As soon as possible, the overall plan of study should be developed and a committee selected, chaired by the student’s advisor, to guide the student through the study process.

This committee is subject to final approval by the chair and graduate program director and functions as the principal advisory and research project approval board. The committee may include an external member of the Graduate Faculty. (The form for the appointment of a master’s thesis committee can be found at http://graduate.ua.edu/academics/forms/committee_thesis.pdf.)

Comprehensive Examinations

All students must take and pass comprehensive examinations on their knowledge of the field of anthropology. The selection of the three areas will be made in collaboration with the faculty advisor. The entire anthropology faculty will participate in composing the exam questions and evaluating each student’s responses.

The faculty’s evaluations will be communicated to the director of graduate studies and to the department chair. Once the student has successfully completed the comprehensive exams, he or she may file for admission to candidacy (see http://graduate.ua.edu/students/forms/).
Deadline for All Application Materials to be in the Graduate School Office: Rolling admission

Number of Evaluation Forms Required: Three

Entrance Tests: GRE (TOEFL and TWE also required for international applicants whose native language is not English).

Comments: See UA catalog and www.as.ua.edu/art

Contact Information
For detailed information, contact Dr. Lori Cormier, Graduate Program Director, UAB Department of Anthropology, HHB 311, 1401 University Blvd, Birmingham, Alabama 35294-1152.

Telephone 205-975-6526 or 205-934-3508.

E-mail: lcormier@uab.edu (kyle@uab.edu).

Art History (M.A*)
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.A *
Director: Dr. Cathleen Cummings
Phone: (205) 934-7909
E-mail: cathleen@uab.edu
Web site: www.uab.edu/art

* A program leading to the Master of Arts degree in art history is offered jointly by UAB and the University of Alabama (Tuscaloosa). The MA degree in Art History prepares students for further academic study at the doctoral level or for professional careers in museums, galleries, and other arts-related fields.

Admission Requirements
For admission in good standing, applicants to UAB must meet Graduate School requirements for scholarship and GRE General Test scores. A Minimum GPA of 3.0 (B) is required for acceptance into the program. The applicant should have completed 24 semester hours in art history and related areas such as history, aesthetics, archaeology, and anthropology, although this requirement may be reduced depending on the applicant's background and preparation. It is desirable that an applicant be able to read a foreign language related to the proposed field of study. Students may apply for admission for either the fall or spring semester.

Degree Requirements
Courses
Students must complete 24 semester hours in art history. Students must take courses in two of the following six general areas: Medieval Art, Early Modern Art (ca. 1400-1700), Eighteenth-Century/ Nineteenth Century Art, Twentieth-Century/Contemporary Art, South Asian Art, and East Asian Art. It is recommended that students take at least one course outside of these two fields for breadth of knowledge. A maximum of 3 semester hours of independent study will be permitted. Each student must take ARH 680 Methods and Approaches to the History of Art, which should be taken in the first semester of enrollment in the M.A. program. Each student must take at least 6 semester hours of coursework at the University of Alabama (Tuscaloosa).

Note: A maximum of 6 of the required hours in art history may be taken in a related field with the concurrence of the joint faculty.

Foreign Language Requirement
By the completion of 15 hours of coursework towards the M.A., students should have met the language requirement of a reading knowledge of one foreign language relevant to the student's area of study, approved by the Graduate Program Director and Faculty Advisor. Students may demonstrate language competency by passing a translation exam administered by the Department of Foreign Languages (French or German) or by passing a 200-level course (i.e. FR 201 or FR 202 or GN 201 or GN 202). For other languages, students must consult with the Graduate Program Director and Faculty Advisor and arrange an appropriate translation exam or course to fulfill the language requirement. Students may not sit for the M.A. exam until the language requirement is completed. A reading knowledge of a second foreign language is strongly recommended.

Comprehensive Examination
For admission to candidacy, the student must pass a comprehensive examination prepared and graded by the joint art history faculty. Written examinations are scheduled twice a year, at the end of fall and spring semesters.

Thesis
The student must present a thesis under the direction of a member of the joint art history faculty. Each student will register for ARH 699 for 6 semester hours of credit. Students must be registered for at least 3 hours of thesis credit (ARH 699) in the semester of graduation.

UAB Faculty:
Cummings, Cathleen
Dallow, Jessica
McPherson, Heather
Turel, Noa

UA-Tuscaloosa Faculty:
Curzon, Lucy
Jones, Tanja
Pagani, Catherine
Stephens, Rachel

Additional Information
Deadline for Entry Term(s): Fall or Spring Semester
Deadline for All Application Materials to be in the Graduate School Office: April 1 for Fall, October 1 for Spring
Number of Evaluation Forms Required: Three

Entrance Tests: GRE (TOEFL and TWE also required for international applications whose native language is not English.)
Additional Requirements: Students must provide a writing sample.

Contact Information
For detailed information, contact Dr. Cathleen Cummings, Graduate Program Director, UAB Department of Art and Art History:

Telephone 205-934-7909; Fax (205) 996-6986.
E-mail cathleen@uab.edu (jdallow@uab.edu)

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Biology
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered
Ph.D., M.S., 5th Year M.S.

Director: Stephen A. Watts, Ph.D.

Phone: (205) 934-9685

E-mail: sawatts@uab.edu

Web site: http://www.uab.edu/biology/

Program Information
Areas of Specialization
Graduate students in the M.S. and Ph.D. programs in biology may specialize in research activities at all levels of biological organization, with emphases on ecophysiology, cellular and molecular biology, endocrinology, and ecology of aquatic organisms, or on models related to human disease.

Admission
For admission in good standing, applicants must meet the following requirements, in addition to the Graduate School’s standards: an undergraduate degree in a biological science, B-level scholarship in all biology courses, two semesters of organic chemistry, two semesters of physics, mathematics through calculus, and a minimum of 152 on both the verbal and quantitative portions of the GRE General Test, and a personal statement of career goals. The graduate program director in biology must approve admission on probation or with deficiencies in one of the above requirements. Three letters of evaluation from individuals who have a thorough knowledge of the applicant’s academic abilities and potential are also required. It is strongly recommended that a student contact a mentor before applying. Students may enter at the beginning of any semester, with deadlines of March 1 for summer and fall applicants and October 15 for spring applicants.

Coursework, Thesis, and Dissertation
A dissertation embodying the results and analysis of an original experimental investigation is required for Ph.D. candidates. Students in the M.S. program may write a thesis based on a research project (Plan I) or, alternatively, may elect to submit a nonresearch project incorporating a review and analysis of one or more topics of current or historical interest in biology (Plan II).

Since scientific problems encountered today are multifaceted and require multidisciplinary approaches, students are expected to acquire a broad background in the physical and life sciences. Doctoral students must complete formal course work in or have equivalent training related to six of the following seven areas: ecology, physiology, cell biology, developmental biology, genetics, microbiology, and molecular biology. Master's students must have competency in five of these life-science areas. Each student is also expected to satisfactorily complete a course or sequence in biometry and any advanced courses designated by the student’s graduate study committee consistent with the chosen area of specialization.

Each student must also enroll in three seminar courses approved by his or her graduate study committee, and one of the seminars must be outside the student’s primary area of specialization. Also, each student is required to demonstrate proficiency in teaching by delivering formal course lectures or by conducting instructional laboratories. Certificates for advanced training in teaching are also available.

Examinations
To qualify for candidacy, a student in the Plan I master’s program must satisfactorily complete either a written or an oral comprehensive examination. A doctoral student must take both written and oral comprehensive examinations. As part of a student’s final defense of his or her dissertation or thesis, a public departmental seminar must be presented.

Class A Teaching Certification
Under the Alabama Department of Education’s "Strengthened Subject Matter Option," students who complete requirements for the master's degree in biology can also receive class A teaching certification, providing that certain prerequisites and requirements are met. Complete details are available from the School of Education Certification Office, EB 100, 1530 3rd Avenue South, Birmingham, Alabama 35294-1250 (Telephone 205-934-5423).

Additional Information & Mailing Address
Deadline for Entry Terms: Each semester
Deadline for All Application Materials to be in the Graduate School Office: March 1 for summer and fall; October 15 for spring admission
Number of Evaluation Forms Required: Three

Entrance Tests
GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

Contact Information
For detailed information contact Dr. Stephen A. Watts, Graduate Program Director, UAB Department of Biology, CH 375, 1720 2nd Avenue South, Birmingham, Alabama 35294-1170.
Telephone 205-934-9685 Fax 205.975.6097
E-mail sawatts@uab.edu
Web http://www.uab.edu/uabbio

Physical Address
UAB Department of Biology, Campbell Hall, Room 464, 1300 University Blvd., Birmingham, Alabama 35294-1170.
Chemistry

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
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<th>Degree Offered:</th>
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<tbody>
<tr>
<td>Director:</td>
<td>Dr. Aaron L. Lucius</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-8096</td>
</tr>
<tr>
<td>Fax:</td>
<td>(205) 934-2543</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:allucius@uab.edu">allucius@uab.edu</a></td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="http://www.uab.edu/cas/chemistry">www.uab.edu/cas/chemistry</a></td>
</tr>
</tbody>
</table>

Program Information

The UAB Department of Chemistry offers graduate programs leading to the Doctor of Philosophy (Ph.D.) and Master of Science (M.S.) degrees that are designed to ensure disciplinary quality and research competency. The Department of Chemistry has an outstanding research active faculty and highly collaborative culture that is conducive to stimulating graduate studies in a collegial atmosphere. The graduate program in the Department of Chemistry provides opportunities for research mentors to provide personalized attention to the academic and research progress of each of our graduate students.

Key features of the Department of Chemistry Graduate Program:

- Students are quickly integrated into research laboratories (ideally in first semester)
- Research is highly collaborative, both within the Department of Chemistry and the UAB biomedical research complex
- Interdisciplinary programs to broaden research interests including drug discovery, advanced materials, biophysical chemistry, structural biology, and nanomaterials
- Strong record of career success for graduates in academia, industry, and government

All graduate students are required to pursue a graduate curriculum that provides the general knowledge-based foundation through a series of six core curriculum courses (18 semester hours). All students are required to pass the Foundations Courses (CH 600/CH 700, Foundations I (Analytical and Physical); CH 601/CH 701, Foundations II (Organic and Inorganic). At least four additional chemistry core courses (12 semester hours) are selected by the student and the student’s graduate committee. The graduate student and the graduate research mentor (in consultation with the student’s graduate research committee) select additional graded graduate courses to complete a minimum of 24 semester hours. There is no semester hour requirement for additional course work but the student must complete a minimum of 24 semester hours of graduate course work with an overall GPA of 3.0 or higher. Chemistry graduate students may also participate in and enroll in interdisciplinary graduate programs, requiring enrollment in courses in other departments throughout the UAB campus that will broaden the students background in selective areas and greatly strengthen their ability to carry out interdisciplinary research.

All graduate students are to demonstrate communication skill competency. Adequate performance is required on the departmental literature seminar, written responses to essay questions, dissertation defense, teaching, written publications, and professional presentations at scientific meetings. All chemistry graduate students are required to complete GRD 715 (Graduate Teaching Assistantship Training) during their first term in the program. Students with English as a second language enroll for 3 semester hours. All others enroll in this course for 2 semester hours. This course is required but is not counted toward the 24 semester hour minimum.

During the Fall semester, first year graduate students are required to enroll in CH 790 (Introduction to Graduate Research). The student will be introduced to the graduate research faculty and their research interests. The student is required to meet with prospective research mentors to discuss interest in the prospective mentor’s laboratory and if needed, schedule a 3-4 week rotations in research laboratories of interest. The process of selecting the graduate research mentor must be completed by the end of the student’s first year.

Core Courses:

<table>
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<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>CH 600/700 Foundations of Physical and Analytical Chemistry</td>
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</tr>
<tr>
<td>CH 601/701 Foundations of Organic and Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CH 629/729 Special Topics in Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CH 631/731 Organic Reactions and Their Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>CH 632/732 Organic Reactions and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>CH 633/733 Reactive Intermediates and Conservation of Bonding</td>
<td>3</td>
</tr>
<tr>
<td>CH 639/739 Special Topics in Organic Chemistry</td>
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<tr>
<td>CH 642/742 Organometallic Chemistry and Catalysis</td>
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<tr>
<td>CH 649/749 Special Topics in Inorganic Chemistry</td>
<td>1-3</td>
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<tr>
<td>CH 659/759 Special Topics in Analytical Chemistry</td>
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<tr>
<td>CH 664/764 Biophysical Chemistry</td>
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<tr>
<td>CH 669/769 Special Topics in Biochemistry</td>
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</tr>
<tr>
<td>CH 671/771 Medicinal Chemistry and Drug Discovery</td>
<td>3</td>
</tr>
<tr>
<td>CH 689/789 Special Topics in Polymer Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 38-42

Substitutions are permitted with the approval of the student’s research advisory committee and director of the graduate program. Master’s students choose from the 600 courses, Ph.D. students from the 700 courses.

Ph.D. Program

For Ph.D. students, there are no specific course requirements beyond the core courses. The academic program is determined through the action of the student’s graduate research mentor and graduate research committee. The student is required to successfully complete their departmental seminar by the end of their second year. A written qualifying examination must be passed in the student’s area of specialization. If failure occurs, only one repeat exam is allowed. An original research proposal must be successfully defended within 12 months of completion of the written qualifying examination. If failure occurs, one repeat defense is allowed. Once admitted to candidacy for the Ph.D. degree, the student must write and successfully defend a research dissertation.

M.S. Program

Plan I

Plan I is a research program that requires a minimum of 24 semester hours (including 18 semester hours of core courses) of formal academic coursework approved by the student’s graduate study committee. The progress of the student’s research program is monitored by the graduate study committee. The student, having been admitted to candidacy and
having completed an approved plan of research, will complete and defend a thesis.

**Plan II**

Plan II is a non-thesis program that requires a minimum of 30 semester hours (including 18 semester hours of core courses) of appropriate graduate work that has been approved by the student's graduate study committee and Department of Chemistry Graduate Program Director.

<table>
<thead>
<tr>
<th>Entry Term</th>
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<tr>
<td>Deadline for Entry Term(s)</td>
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</tr>
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<td>Deadline for All Application Materials to be in the Graduate School Office</td>
<td>Six weeks before term begins</td>
</tr>
<tr>
<td>Number of Evaluation Forms Required</td>
<td>Three</td>
</tr>
<tr>
<td>Entrance Tests</td>
<td>GRE (TOEFL and TWE also required for international applicants whose native language is not English.)</td>
</tr>
</tbody>
</table>

Comments: None

For detailed information, contact Ms. Laura J. Knighten, Graduate Recruitment Coordinator, 1720 2nd Avenue South, Birmingham, AL 35294-1240.

Telephone 205-934-8139 | E-mail knighten@uab.edu | Web www.uab.edu/cas/chemistry

**Communication Studies**

The Department of Communication Studies is concerned with human interaction and communication in all its forms. The Communication Studies Department provides research, teaching and service to enable students to develop understanding and skills in order to thrive in a global communication environment of unremitting change and increasing diversity. To this end the department offers an undergraduate major in Communication Studies, and graduate courses leading to a Master of Arts in Communication Management.

**Communication Management**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**M.A. Program**

The master's degree program in communication management is targeted at professionals in the fields of public relations, print and broadcast journalism, and other related areas. Students can explore practical and theoretical applications in professional communication fields. Classes are held primarily or exclusively at night and on the weekends to benefit working students. The program will award students a master's degree in communication management. Students in the program will need to complete 36 semester hours of graduate study. The range of courses is designed to allow students to customize their studies according to their career goals.

**Additional Information**

For additional information, contact Dr. Jonathan H. Amsbary, Program Director, HHB, Room 335, 1401 University Boulevard, Birmingham, AL 35294-1152.
Telephone 205-934-3877 | E-mail amsbary@uab.edu
Web http://www.uab.edu/cas/communication/graduate-program

**Computer and Information Sciences**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Ph.D., M.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director:</td>
<td>Dr. Chengcui Zhang</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-8606</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:czhang02@uab.edu">czhang02@uab.edu</a></td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="https://cis.uab.edu/graduate">https://cis.uab.edu/graduate</a></td>
</tr>
</tbody>
</table>

**Program Information**

The field of computer and information sciences deals with theory and methods for processing of information. Graduate programs leading to the M.S. and Ph.D. degrees are designed to prepare individuals for professional and research-level careers in industry, government, and academia. Prospective students should have substantial background in computer science and mathematics.

**M.S. Programs**

The M.S. program requires 24 semester hours of coursework plus 6 semester hours of thesis research. The thesis (Plan I) or 30 semester hours of coursework (Plan II). Specializations are available in bioinformatics, computer graphics, and distributed computing. CIS and JS (Dept. of Justice Sciences) also jointly offer the MS in Computer Forensics and Security Management. For details, please check the department website.

**Ph.D. Program**

The Ph.D. program consists of three phases (with some overlap between phases). The first phase of the program is devoted primarily to formal coursework and preparation for the qualifying examination. The second phase consists of coursework and research in preparation for the comprehensive examination. This examination requires presentation of a dissertation research proposal. Successful completion of this phase leads to admission to candidacy. The final phase is the completion of the dissertation research and its defense. Ph.D. student progress will be reviewed annually.

**Application Deadlines**

| Masters Program in Computer and Information Sciences | April 15 for Fall; October 1 for Spring. |
| Masters Program in Computer Forensics and Security Management | March 1 for Summer; June 1 for Fall; November 1 for Spring. |
| Doctoral Program in Computer and Information Sciences | January 15 for Fall; September 1 for Spring. |
Contact Information

For detailed information, after first visiting the website below for basic information including application guidelines and prerequisites, contact Dr. Chengcui Zhang, Associate Professor and Graduate Program Director, UAB Department of Computer and Information Sciences, Campbell Hall, Room 127, 1300 University Boulevard, Birmingham, Alabama 35294-1170.

Telephone 205-934-8606
E-mail czhang02@uab.edu (puri@uab.edu)
Web cis.uab.edu/graduate

English

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.A.
Director: Dr. Kyle Grimes
Phone: (205) 934-8593
Email: kgrimes@uab.edu
Web site: www.uab.edu/english

Admission Requirements

For admission in good standing, applicants must meet the Graduate School's requirements for scholarship and test scores (GRE General Test or MAT). The applicant should normally have finished the requirements for an undergraduate degree in English, including satisfactory completion of at least six semester hours in a foreign language. A generally well-prepared applicant who is lacking in some part of the undergraduate preparation may be admitted with the provision that any deficiencies be removed by a time specified by the graduate program director.

Program Description

Students in the graduate program can concentrate their studies in any of three areas: Literature, Composition and Rhetoric, or Creative Writing. Students concentrating in Literature or Composition and Rhetoric have the option of Plan I (30 hours of coursework and the successful defense of a masters thesis) or Plan II (30 hours of coursework and successful completion of five Area Exams); students concentrating in Creative Writing must pursue Plan I (30 hours of coursework and the successful defense of a Creative Writing thesis). The specific course requirements for each of these concentrations are explained in detail on the English Department website.

Additional Information

Deadline for Entry Term(s): Each semester
Deadline for All Application Materials to be in the Graduate School Office: Six weeks before term begins
Number of Evaluation Forms Required: Three
Entrance Tests: GRE or MAT (TOEFL and TWE also required for international applicants whose native language is not English.)

Foreign Language

http://www.uab.edu/languages

Chair:

The Department of Foreign Languages and Literatures offers multifaceted French and Spanish graduate-level courses which, in tandem with the offerings in the School of Education, address the diverse global and intellectual challenges facing future educators and citizens of the 21st century.

Whether at the undergraduate or at the graduate level, our programs are rooted in diversity within and across cultures. We 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. We offer graduate students a unique opportunity to interact with scholars and engage as well with faculty dedicated to serving their profession. Most of our UAB Foreign Languages and Literatures faculty are engaged in their state and national professional teaching associations, serving on boards, organizing professional workshops, working every day to build connections and to enhance foreign language education opportunities in our state and beyond.

At the graduate level the UAB Department of Foreign Languages and Literatures offers courses in culture, civilization, cinema and culture studies, linguistics, and literature.

For more information, visit the Department of Foreign Languages and Literatures web site at http://www.uab.edu/cas/languages/.

Foreign Language Graduate Studies

M.A. in Education (French/Spanish)

Traditional Masters Program (Class A Program)

At least 1/3 of the program shall be teaching field courses (12 hours from 500 level Spanish or French courses). Including EHS 611 Advanced Special Methods for Teaching Foreign Languages. Students must take Comprehensive Examinations upon completing all course work. Comprehensive exams for the FL section are schedule only twice a year, fall and spring.

NO COMPREHENSIVE EXAMS IN FL WILL BE SCHEDULED FOR THE SUMMER TERM. Applications can be picked up from and turned in to EB 116 two semesters prior to taking the exam. Students must complete a Student Teaching semester at the end of all class work. Students cannot take other classes while they are doing Student Teaching. Application deadline is always in January, the year prior to Student Teaching. Applications can be picked up from the Office of Clinical Experiences.
Alternative Masters Program

The purpose of the Non-Traditional or Alternative Masters Program is to permit an individual who has completed a baccalaureate degree from a regionally accredited college or university in a non-teacher education program, to complete a Class A program at the knowledge and skill level above that which is required for individuals who hold a Class B certification.

The program is also available for certified teachers who want to change their certification area. Students who complete the Alternative Masters Program in Foreign Language Education at UAB will receive a master's degree in education (MAE) with an emphasis in Spanish or French, and will be eligible to apply to the Alabama State Department of Education for a Class A (master's level) certificate.

Requirements

- At least 1/3 of the program shall be teaching field courses (12 hours from 500 level Spanish or French courses). For a course listing click here for Spanish or here for French.
- EHS 611 Advanced Special Methods for Teaching Foreign Languages (3 hours).
- Students must take Comprehensive Examinations upon completing all course work. Comprehensive exams for the FL section are schedule only twice a year, fall and spring. NO COMPREHENSIVE EXAMS IN FL WILL BE SCHEDULED FOR THE SUMMER TERM.
- Applications can be picked up from and turned in to EB 116 two semesters prior to taking the exam.
- Students must complete a Student Teaching semester at the end of all class work. Students cannot take other classes while they are doing Student Teaching. Application deadline is always in January, the year prior to Student Teaching. Applications can be picked up from the Office of Clinical Experiences.

For more information or advising in FL Education, please contact:
Dr. Krista Chambless (kristachambless@uab.edu).

For more information on any of the Education programs please contact:
Office of Student Services, Cecilia Pierce (cpierce@uab.edu)
skeith@uab.edu

Certification Officer/Graduate Advisor:
Deborah Blackstone (dabstone@uab.edu)

Undergraduate Academic Advisor:
Abby Westerhold (awesterhold@uab.edu) Jennifer Hogan (jhogan@uab.edu)

Office of Clinical Experiences:
Diane Hedgepeth (dhedge@uab.edu).

PLEASE NOTE: Undergraduate students graduating either with a degree in Foreign Language Education or a double major in Education and French or Spanish will have three questions on the Comprehensive Exam: two from the School of Education in the areas of General Secondary and Foundations and one from the Department of Foreign Languages and Literatures pertaining to either Part B, Part C, or Part D of the Study Guide (to be written in the target language).

The extent to which a Foreign Language Education or Foreign Languages major at UAB is able to apply content courses taken at a university other than UAB toward graduation is subject to the discretion of the Department of Foreign Languages and Literatures and the School of Education at UAB and is handled on a case-by-case basis.

History

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.A.
Director: Dr. Andrew W. Keitt
Phone: (205) 934-7083
Email: akeitt@uab.edu
Web site: www.uab.edu/history

Program Information

The history graduate program provides opportunities for students to learn the techniques of research and broaden their knowledge of historical literature. Students may choose Plan I, which includes writing a thesis based on original research using primary sources, or Plan II, which requires the completion of MA exams in three historical topics. All students are required to enroll in HY 601 Historiography and HY 602 Historical Research and Writing and must take at least 30 hours of their course work in graduate seminars. Each student must take a minimum of 9 hours of course work in U.S. history and 9 hours in non-U.S. history (e.g., European, Asian, Latin America, World).

Plan I (Thesis Plan)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 601 Historiography</td>
<td>3</td>
</tr>
<tr>
<td>HY 602 Historical Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>9</td>
</tr>
<tr>
<td>Non-U.S. History</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

No foreign language study credits can be counted toward the degree requirements. Where foreign language requirements are appropriate, it is recommended that students satisfy these requirements before commencing thesis research.

Plan II: (Nonthesis Plan)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 601 Historiography</td>
<td>3</td>
</tr>
<tr>
<td>HY 602 Historical Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>9</td>
</tr>
<tr>
<td>Non-U.S. History</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

Students interested in Teaching Certification for Public Schools should contact the School of Education.
The Department of Government offers a graduate program of study leading to the Master of Public Administration (MPA) degree. UAB's nationally ranked Master of Public Administration (MPA) program is NASPAA (National Association of Schools of Public Affairs and Administration) accredited. Our MPA program prepares students for successful careers in public service where they can serve the greater good. We have graduates locally and across the country who have become successful leaders and managers in local, state, and federal government positions, and in nonprofit organizations.

Public Administration (M.P.A.)

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

MPA Program Mission

In line with the mission of the University, the MPA program is committed to excellence in graduate education through teaching, research, service, and practice. The program focuses on building the next generation of global leaders and responsible decision makers by enhancing their intellectual and social capacities through knowledge and skills provided within the framework of public service values embedded in the MPA curriculum. The Master of Public Administration Program prepares individuals for positions of leadership in the public and nonprofit sectors. It is a professional graduate degree for both pre-career students and in-service administrators. The program is designed to develop the insights and skills needed to plan and formulate policy, and to organize, manage, and implement programs and operations. The MPA program is accredited by the Network of Schools of Public Policy, Affairs, and Administration (NASPAA). Its Board of Advisors consists of internal and external stakeholders comprised of community members, alumni and students.

The MPA curriculum is designed to ensure that students achieve competency in five domains:

- To lead and manage in public governance.
- To participate in and contribute to the policy process.
- To analyze, synthesize, think critically, solve problems and make decisions.
- To articulate and apply a public service perspective.
- To communicate and interact productively with a diverse and changing workforce and citizenry.

Degree Requirements

Students in the MPA program must complete a total of 42 semester hours or the equivalent, with an overall grade average of at least B. The curriculum features a 9 course core sequence, plus 4 specialization/elective courses in either of two tracks; Nonprofit Management (NPM) or Public Management and Planning (PMP). Students without professional public service experience are required to do a three hour internship in addition to required coursework. Previous graduate work at UAB or another NASPAA accredited MPA program may be credited toward the degree if it is directly applicable. Students may select the thesis option or the non-thesis option.

Joint Degree and Certificate Programs

- For students who are interested in both public administration and the delivery of public health services, a coordinated MPA/MPH dual degree is offered.
- For students who are interested in both public administration and the law, a coordinated MPA/J.D dual degree is offered.
- For students interested in criminal justice and public administration a coordinated MPA/MSCJ dual degree is offered.
- For non-traditional students interested in managing nonprofit organizations the program offers a Graduate Certificate in Nonprofit Management. Students seeking admission into the Nonprofit Certificate only should apply as non-degree seeking through Graduate School by visiting http://www.uab.edu/graduate/images/acrobat/forms/certificate-app.pdf. Contact the MPA program coordinator (ccmayo@uab.edu) for additional information regarding the Certificates.

Admission Requirements

Because of its multidisciplinary nature, persons from all undergraduate majors are considered for admission to the program. Applicants must take the Graduate Record Examination (GRE) and submit scores. The following are eligible for a GRE Waiver:

- Students with a graduate degree from an accredited college or university.
- Students with at least 5 years professional, full-time, progressively responsible mid-to-senior level management experience. The Statement of Interest and resume should provide clear evidence to for this waiver.

For detailed information, contact Dr. Andrew W. Keitt, History Graduate Program Director, Department of History, HHB 360, 1720 2nd Avenue South, Birmingham, Alabama 35294-1152.

Telephone 205-934-7083

E-mail akeltt@uab.edu
The University of Alabama at Birmingham

The LSAT may be substituted for the GRE only by JD/MPA applicants. Standardized GMAT score may be substituted at the discretion of the Program Director.

** IMPORTANT Applicants who are applying for a waiver or substitution of other test scores must contact the MPA Director for the official approval. The applicant should submit a formal request accompanied by a resume to the MPA Program Director via postal mail or email attachment.

Two letters of reference are also required. Application for admission should be made online through the UAB ApplyYourself Online official UAB Graduate School's admission site. Admissions will be made fall and spring semester. Deadlines for submitting application for admission are listed on the UAB Graduate School website.

Deadline for Entry Term(s): Each semester
Deadline for All Application Materials to be in the Graduate School Office: Fall: July 1 Spring: November 1
Number of Evaluation Forms Required: Two
Entrance Tests: GRE (TOEFL and TWE also required for international applicants whose native language is not English); GRE waived for senior professional. See guidelines above.

Financial Aid

The Department of Government has a limited number of graduate assistantships awarded on a competitive basis, which can be awarded during any semester as vacancies occur. The Department has two scholarships which are awarded on a competitive basis each spring. Other financial resources are available through the Office of Student Financial Aid.

Curriculum

A total of 39 hours are required to complete the MPA program. For pre-career students an additional 3 credit hours of internship (20 hours/week) is also required. For a total of 42 hours, a full time student, taking 3 courses per semester, plus one additional course over the summer, should be able to complete the program within two years. All courses are offered in the evenings to accommodate working professionals.

Core Courses: All students are required to take the following nine courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPA 600 Administrative Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MPA 601 The Public Policymaking Process</td>
<td>3</td>
</tr>
<tr>
<td>MPA 602 Administrative Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MPA 603 Public &amp; Nonprofit Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>MPA 604 Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 605 Information Management for Government</td>
<td>3</td>
</tr>
<tr>
<td>MPA 606 Foundations of PA Research</td>
<td>3</td>
</tr>
<tr>
<td>MPA 607 Quantitative Methods for PA *</td>
<td>3</td>
</tr>
<tr>
<td>MPA 697 Graduate Learning Portfolio **</td>
<td>3</td>
</tr>
</tbody>
</table>

* Pre-requisite MPA 606
** Should be taken last term. Not required for students pursuing thesis option
*** Effective in 2012-13.

Specializations

Students should select a specialization based upon their career goals and interests. The specializations are Nonprofit Management or Public Management & Planning. Students must take three courses in their specialization. In addition to three specialization courses, students must take one elective course. Generalists must take (2) courses from each specialization.

Nonprofit Management Specialization Requirements (choose 3 courses)

Students interested in improving their organizational management, fundraising and grant management skills for nonprofits should select this specialization. This specialization prepares students for a wide range of careers within the nonprofit sector including middle and upper management positions, fundraising and development, grant management and program management/evaluation.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPA 671 Marketing and Fundraising</td>
<td>3</td>
</tr>
<tr>
<td>MPA 672 Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 678 Strategic Planning</td>
<td>3</td>
</tr>
<tr>
<td>MPA 684 Grants Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 689 Program Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

Public Management and Planning Specialization Requirements (choose 3 courses)

Students interested in public management or planning should select this specialization. This specialization prepares students for a wide variety of positions including federal, state and local government management, budget and financial management, planning, economic development, community development, program analysis and evaluation.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPA 662 State and Local Government Administration</td>
<td>3</td>
</tr>
<tr>
<td>MPA 681 Local Government Planning</td>
<td>3</td>
</tr>
<tr>
<td>MPA 668 Intergovernmental Relations</td>
<td>3</td>
</tr>
<tr>
<td>MPA 682 Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>MPA 674 GIS for Managers</td>
<td>3</td>
</tr>
<tr>
<td>MPA 666 City County Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses

In addition to the elective courses listed below, any course from the specialization list can be used as an elective.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPA 664 Women in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>MPA 665 Crisis Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 683 Public Manageral Economics</td>
<td>3</td>
</tr>
<tr>
<td>MPA 675 Equity and Diversity in Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>MPA 667 Administrative Law</td>
<td>3</td>
</tr>
</tbody>
</table>
Generalist MPA Degree (2 courses from each specialization)

As an alternative to selecting one of the above specializations, students may pursue a generalist MPA degree. This degree should be chosen if the student desires a broadly based degree and some familiarity with subjects in each of the specializations. Students who desire a public administration education transferable to many different public or nonprofit settings may want to take this course of study. To complete this degree, students must take the core curriculum and at least two (2) required courses from each of the two specializations.

Graduate Learning Portfolio (GLP)

During the last semester of study, students opting for the non-thesis (Plan II) must register for MPA 697, Graduate Learning Portfolio (GLP) and complete a comprehensive portfolio based on the course work, mission/ vision, and career plans.

Students taking the thesis option (Plan I) must takes three hours of Independent Study under the guidance of the thesis chair prior to taking the six thesis hours (total 9 hours for thesis). The nine hours of thesis will substitute for the specialization courses.

Special Topics Courses

Special Topics Courses are periodically offered under MPA 695 based on student and faculty interest.

Internships and Placement

Students may apply for an internship placement at any time. A few paid opportunities do arise, although the majority of internships are non-paid. Typical placements are in city and county government, planning departments, public health agencies, social service agencies, state government agencies, and various nonprofit organizations. The Department has placed several students in the prestigious Presidential Management Internship Program, which provides an excellent opportunity for eventual employment in the federal government. Students are also encouraged to use the services of the UAB Student Development Office in the University Center for career planning and placement. The faculty in the program also assists students in job placement. Please click here to see what some of our graduates are doing now.

Joint Degree Programs

Coordinated MPA/MPH Program

The MPA/MPH is designed to train individuals for administrative positions in public health and related health organizations. The Master of Public Administration degree prepares students for careers as administrators in public and nonprofit agencies, and the Master of Public Health provides a background in public health principles and programs. Students must apply and be accepted into both programs, meeting each program’s entry requirements. Students are required to complete a total of 60-64 semester hours for the coordinated degree. Core requirements of 21 hours from the MPA program and 39-43 hours from the MPH program are required. Full-time students should be able to complete all degree requirements within three years.

Coordinated MPA/JD Program

The MPA program at UAB and the Cumberland School of Law at Samford University offer a coordinated MPA/JD program. The offering of this dual degree reflects recognition of the complex interrelationship between the legal system, public policy analysis, and public management. It will be particularly applicable to those pursuing careers in government and/or public interest law. Students must apply and be admitted to the MPA and JD programs separately. The requirements for each degree must be met. Close communication with both programs is required. Depending on prior experience, a field placement may be required.

Coordinated MPA/MSCJ Program

The MPA/ MSCJ is targeted toward individuals who wish to gain competencies in public management and the theory/practice of criminal justice. Students must apply and be accepted into both programs, meeting each program’s entry requirements. Students are required to complete a total of 60 semester hours for the coordinated degree. Core requirements of 24 hours from the MPA program and 18 hours from the MSCJ program; an additional 12 hours of electives, 3 hours of internship and a 3 hour capstone course are required. Full-time students should be able to complete all degree requirements within three years.

MPA Alumni Association

An active alumni association welcomes graduates of the program into membership. The association makes both advisory and financial contributions to the program and seeks to elevate the level of professionalism in public administration through a variety of projects and services. One of the best qualities of our alumni is their willingness to remain in contact with the MPA program. Our students benefit from talks and events in which our alumni engage, shared their experiences, and mentor the next generation.

Contact Information

For additional information refer to the web site of the UAB MPA program: www.uab.edu/mpa. Inquiries concerning program admission or other questions about the program should be directed to the MPA Program Program Coordinator.

MPA Coordinator
Graduate Studies in Public Administration
Department of Government
University of Alabama at Birmingham
HBB 415, 1530 3rd Avenue South
Birmingham, Alabama 35294-1152
Telephone (205) 975-3413 or (205) 934-2339
Email: mpa@uab.edu

Justice Sciences

The Department of Justice Sciences is home to multiple graduate programs, including programs of study leading to the Master of Science in Criminal Justice (p. 50) (M.S.C.J.), the Master of Science in Forensic Science (p. 52) (M.S.F.S.), the Master of Science in Computer Forensics and Security Management (p. 38), and “A” and “B” graduate certificates in Computer Forensics. The department also co-sponsors a joint MSCJ/MPA program with the Department of Government.

Criminal Justice

Degree Offered: M.S.C.J.
Director: J. Heith Copes, Ph.D.
Phone: (205) 934-2069
E-mail: jhcopes@uab.edu
Web site:  http://www.uab.edu/justice-sciences/

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Program Information

The criminal justice graduate program requires study in the overall discipline, with intensive focus on the areas of criminal justice policy, criminal justice administration, research methods and statistics, and criminological theory. Beyond a core set of required courses, the program features a Thesis Track (Plan I) designed for students interested in pursuing a doctorate in criminal justice or criminology, and a Non-Thesis Track (Plan II) designed for students interested in pursuing entry- or advanced-level positions in a criminal justice or related agency setting. Students selecting the Plan I option are required to complete a Thesis project under the guidance of the student's advisor. The student will prepare and submit this research paper to his/her advisor.

The application deadline for receipt of all admission materials by the Graduate School is July 1 each year. Students may be admitted to the M.S.C.J. program “in good standing” provided they meet the minimum admission criteria established by the Graduate School and the program, which include having taken an introductory-level statistics course and an introductory-level research methods course in which a grade of "B" or better was earned. Most students admitted to the program have earned a cumulative undergraduate grade point average (GPA) of 3.0 or higher on a 4.0 scale and earned a combined score on the verbal and quantitative sections of the Graduate Record Examination (GRE) of 300 or higher. Students who otherwise meet minimum admission criteria but who have not taken both the statistics and the research methods courses may be admitted to the M.S.C.J. program on a "contingency" basis. Students so admitted will not be allowed to register for graduate coursework until the contingencies are removed. Students meeting the minimum requirements for admission including taking the statistics and research methods courses but who lack a substantive background in criminal justice may be admitted to the M.S.C.J. program on a "contingency" basis, but will be required to take remedial coursework before they will be allowed to register for any graduate courses.

Requirements for Master of Science in Criminal Justice Plan I (Thesis)

Requirements

<table>
<thead>
<tr>
<th>Required Professional Seminars</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 583 Patterns in Crime</td>
<td>3</td>
</tr>
<tr>
<td>JS 600 Pro-Seminar in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JS 601 Seminar in Criminological Theory</td>
<td>3</td>
</tr>
<tr>
<td>JS 604 Seminar in Criminal Justice Policy</td>
<td>3</td>
</tr>
<tr>
<td>JS 605 Seminar in Research Design</td>
<td>3</td>
</tr>
<tr>
<td>JS 606 Seminar in Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses</td>
<td>6</td>
</tr>
<tr>
<td>JS 699 Thesis Research (Students must complete and defend a major research project under the direction of a thesis committee that is chaired by the student's major advisor)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 30

Students who select Plan I option must establish and maintain a minimum GPA of 3.0 in coursework undertaken (required and elective) while in the program. Students failing to do so may be dismissed.

The recommended course sequence for the Plan I MSCJ degree is:

Semester 1 (Fall): JS 600, JS 601, JS 606
Semester 2 (Spring): JS 583, JS 605, Elective 1
Semester 3 (Fall): JS 603, JS 604, JS 699
Semester 4 (Spring): JS 699, Elective 2

Requirements for Master of Science in Criminal Justice Plan II (Non-Thesis)

Requirements

<table>
<thead>
<tr>
<th>Required Professional Seminars</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 583 Patterns in Crime</td>
<td>3</td>
</tr>
<tr>
<td>JS 600 Pro-Seminar in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JS 601 Seminar in Criminological Theory</td>
<td>3</td>
</tr>
<tr>
<td>JS 604 Seminar in Criminal Justice Policy</td>
<td>3</td>
</tr>
<tr>
<td>JS 605 Seminar in Research Design</td>
<td>3</td>
</tr>
<tr>
<td>JS 606 Seminar in Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses 1</td>
<td>12</td>
</tr>
<tr>
<td>JS 697 Graduate Plan II Research Project (Students must complete a &quot;Demonstration Project&quot; in their area of substantive interest.)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 36

1. Three hours of internship JS 693/JS 696 is strongly recommended.
2. The demonstration project provides evidence of the student’s proficiency in the core areas of research methods, statistics, and criminal justice policy. This research paper is done under the guidance of the student’s advisor. The student will prepare and submit this research paper to his/her advisor.

Students who select Plan II option must establish and maintain a minimum GPA of 3.0 in all coursework undertaken (required and elective). Students failing to do so may be dismissed from the program.

The recommended course sequence for the Plan II MSCJ degree is:

Semester 1 (Fall): JS 600, JS 601, JS 606
Semester 2 (Spring): JS 583, JS 605, Elective 1
Semester 3 (Fall): JS 603, JS 604, Elective 2
Semester 4 (Spring): JS 697/JS 698, Elective 3 (recommended: JS 693/JS 696), Elective 4

MSCJ Online

Students who wish to take courses on line may complete all or part of the MSCJ completely on line. There is no "on line degree," It is the same degree regardless of how the courses are taken. Students may take some courses in class and some on line, or may complete the MSCJ completely on line.

The Online MSCJ Degree is designed to mirror the in-class Non-Thesis Plan II degree. Students enrolled in the online degree are required to take the same courses as the Plan II degree — but the courses may taken
100% online. The degree is structured so that students can graduate in 4 semesters (fall, spring, summer, fall) by taking 9 hours each semester.

Students are required to complete a Demonstration Project (JS 697) to display their mastery of the core courses. Specifically, students will complete a research paper that shows they can synthesize a body of literature, create a research question, use appropriate research methods to evaluate the question, and discuss implications (both theory and policy) of the findings. Students are required to work with a faculty member to oversee the project. In their second semester, students will be required to write a brief proposal discussing their topic and potential sources of data. After completing this proposal, they will send it to the Program Director who will then assign a faculty chair based on best fit with the topic. Students can request to work with faculty members, but this does not guarantee they will be assigned to that faculty member. Once a chair is determined, the faculty chair and student will work together until the chair deems the project acceptable.

Under special circumstances, and with permission from the Program Director, students may be allowed to complete a Thesis through the online MSCJ program. In such cases, the student will take 6 hours of Thesis in place of one elective and the Demonstration Project.

The recommended course sequence for the online MSCJ degree is:

**Semester 1 (Fall):** JS 600, JS 601, JS 606
**Semester 2 (Spring):** JS 583, JS 605, Elective 1
**Semester 3 (Summer):** JS 603, JS 604, Elective 2
**Semester 4 (Fall):** JS 697/JS 698, Elective 3, Elective 4

**Financial Aid**

Students who are admitted to the M.S.C.J. program “in good standing” are eligible to receive department-based financial aid in the form of graduate assistantships or scholarships that are awarded on a competitive basis. Students are typically notified of such awards in early June of each year for the following fall.

**Additional Information**

**Deadline for Entry Term(s):** Fall
**Deadline for All Application Materials to be in the Graduate School Office:** July 1
**Number of Evaluation Forms Required:** Three
**Entrance Tests**
- GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

**Contact Information**

For detailed information contact Dr. Heith Copes, Department of Justice Sciences, University of Alabama at Birmingham, 1201 University Boulevard Office Building, Suite 210, Birmingham, Alabama 35294-4562. Telephone: 205-934-2069
E-mail jhcopes@uab.edu
Web http://www.uab.edu/cas/justice-sciences/

**Forensic Science**

**Degree Offered**
M.S.F.S.

**Director**
Elizabeth Gardner

**Phone**
(205) 934-2069

**E-mail**
eagard@uab.edu

**Web site**
http://www.uab.edu/cas/justice-sciences/graduate-programs/master-of-science-in-forensic-science-msfs

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**Program Information**

The Master of Science in Forensic Science program is designed to prepare individuals for careers in various forensic science and conventional analytical laboratories, emphasizing the application of scientific methods and technologies to legal proceedings. With thoughtful planning, many students have found the program helpful in building a strong foundation to pursue doctoral studies.

The program support includes many UAB faculty members from other departments, personnel from the Alabama Department of Forensic Sciences’ Birmingham laboratory, the Jefferson County Medical Examiner’s Office, and local forensic science-related private institutions. In addition, the program maintains a close working relationship with the DNA profiling laboratories of the Alabama Department of Forensic Sciences and hosts the editorial offices of the Forensic Science Review (the only review journal in forensic science). Faculty research and practice focus especially on forensic aspects of drug chemistry and DNA-based identification.

Minimum admission requirements include a B.S. degree from accredited programs in Chemistry, Biology, or Forensic Science. Coursework is designed for qualified students to begin in fall and complete the program in 21 months. Admission is granted for the fall term only.

According to the National Institute of Justice, students wishing to pursue a career in forensic science should be aware that positions in these fields usually require extensive background checks similar to those required for law enforcement personnel, and are likely a condition of employment. (National Institute of Justice, 2004. Education and Training in Forensic Science: A Guide for Forensic Science Laboratories, Educational Institutions, and Students. NCJ Report 203099. Washington, DC: United States Department of Justice, pp. 7-10).

Graduates from the UAB Master of Science in Forensic Science program are very successful in gaining employment within a year of graduating. During the period 2012-2015, 31 students completed the program. Of these, 28 are working in a laboratory or continuing their education (e.g., pursuing a doctorate, professional degree, or second master's degree). Eighteen of the graduates are employed in forensic science laboratories, ranging from those operated by the Alabama Department of Forensic Sciences to the Greensboro N.C. Police Department.


**Mathematics**

The Department of Mathematics offers graduate programs of study leading to the M.S. degree in Mathematics or the Ph.D. in Applied Mathematics.

The master's program aims to give students the background to use mathematics in a variety of ways. We train students in mathematical rigor. This provides training in the ability to analyze and solve problems in all walks of life. We also emphasize the development of communication skills of our students (in the classes they take as well as in the classes they teach). Therefore the M.S. program prepares students not only for a career in secondary or junior college level teaching but provides also a very good preparation for students who go into business, industry, or government. In the past our students have been very successful in obtaining employment. Of course, the M.S. program will also prepare students who wish to pursue a Ph.D. in Mathematics but whose undergraduate education did not provide them with a sufficient background in advanced mathematics to directly enter a Ph.D. program.

The PhD program in Applied Mathematics prepares students interested in an academic career in a college or university as well as students interested in a career in business, industry, or government.

**Applied Mathematics**

**Mathematics, Applied (Ph.D.)**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Ph.D.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director:</td>
<td>Dr. Ioulia Karpeshina</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-2154</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:karpeshi@uab.edu">karpeshi@uab.edu</a></td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="http://www.uab.edu/cas/mathematics/">http://www.uab.edu/cas/mathematics/</a></td>
</tr>
</tbody>
</table>

- The Applied Mathematics graduate program is offered jointly by the University of Alabama at Birmingham, the University of Alabama (Tuscaloosa), and the University of Alabama in Huntsville.

**Program Information**

Mathematics has always been divided into a pure and an applied branch. However, these have never been strictly separated. The Ph.D. program in applied mathematics stresses the interconnection between pure mathematics and its diverse applications.

**Admission**

Only students with a firm foundation in advanced calculus, algebra, and topology are considered for immediate admission to the Ph.D. program. A student lacking this background will be considered for admission to the M.S. program. Upon passing the qualifying examination, a student may transfer to the Ph.D. program. We expect at least a B average in a student's previous work and a score above 550 on each section of the Graduate Record Examination General Test.

**Program of Study**

Each student in the Ph.D. program has to take the following steps:

- Passing the Joint Program Exam (JPE), also called the Qualifying Exam. The Joint Program Examinations in Real Analysis and Linear Algebra are given during two periods each year (one in May and one in September). During each period a student may take one or both of the exams but subject to the following restrictions: (1) either exam may be attempted at most twice and (2) a student may participate in exams during no more than three periods.
- Completing 54 semester hours of graduate courses. The grade of each course has to be at least a B. The student's supervisory committee and the Joint Program Committee must approve the selection of courses. At least 18 hours must be in a major area of concentration, selected so that the student will be prepared to conduct research in an area of applied mathematics, while at least 12 hours have to be in a minor area of study, which is a subject outside mathematics.
- Passing a language or tool of research exam.
- Passing the Comprehensive Exam, which consists of a written part and an oral part.
- Preparing a dissertation, which must be a genuine contribution to mathematics.
- Passing the Final Examination (thesis defense).

**Additional Information**

For detailed information, contact Dr. Ioulia Karpechina, Mathematics Graduate Program Director, UAB Department of Mathematics, CH 483B, 1300 University Boulevard, Birmingham, Alabama 35294-1170.

<table>
<thead>
<tr>
<th>Telephone</th>
<th>205-934-2154</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail</td>
<td><a href="mailto:karpeshi@uab.edu">karpeshi@uab.edu</a></td>
</tr>
<tr>
<td>Web</td>
<td><a href="http://www.uab.edu/cas/mathematics/">http://www.uab.edu/cas/mathematics/</a></td>
</tr>
</tbody>
</table>
Mathematics
Mathematics (M.S.)
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.
Director: Dr. Ioulia Karpeshina
Phone: (205) 934-2154
E-mail: karpeshi@uab.edu
Web site: http://www.uab.edu/cas/mathematics/

Program Information
Mathematics has always been divided into a pure and an applied branch. However, these have never been strictly separated. The M.S. program in mathematics stresses the interconnection between pure mathematics and its diverse applications.

Areas of Specialization
The student must choose a primary and a secondary specialization from a list of areas determined by the expertise of the faculty. As soon as the student is ready to choose specialization areas, he or she should contact the mathematics graduate program director, who will nominate a graduate study committee for the student. Courses offered to meet degree requirements must be approved by the mathematics graduate program director and the student's graduate study committee.

Degree Requirements
Plan I (Thesis)
The student must complete 30 semester hours approved by the mathematics graduate program director and the student's graduate study committee. The grade in each course has to be a B or better. A minimum of 24 hours must be on the 600 level or above. No courses below MA520 can be counted towards the degree requirements. In addition, the following specific requirements must be met:

- At least 9 hours must be in the primary area of specialization,
- At least 6 hours must be in the secondary area of specialization,
- At least 9 hours must be outside the primary area,
- No research may be included in the 30-hour requirement,
- A thesis must be completed, and
- An examination must be passed on material in the primary area of specialization (the exam may be written, oral, or both, at the discretion of the student's graduate study committee).

Two examinations must be passed on material in the two areas of specialization. (The exams may be written, oral, or both, at the discretion of the student's graduate study committee.)

Plan II (Nonthesis)
The student must complete 30 semester hours approved by the mathematics graduate program director and the student's graduate study committee. The grade in each course has to be a B or better. A minimum of 24 hours must be on the 600 level or above. No courses below MA520 can be counted towards the degree requirements. In addition, the following specific requirements must be met:

- At least 12 hours must be in the primary area of specialization,
- At least 6 hours must be in the secondary area of specialization,
- At least 9 hours must be outside the primary area,
- No research may be included in the 30-hour requirement,

Two examinations must be passed on material in the two areas of specialization. (The exams may be written, oral, or both, at the discretion of the student's graduate study committee.)

Additional Information
Deadline for Entry Term(s): Each semester
Deadline for All Application Materials to be in the Graduate School Office: Six weeks before term begins
Number of Evaluation Forms Required: Three

Entrance Tests GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

Comments None

For detailed information, contact Dr. Ioulia Karpeshina, Mathematics Graduate Program Director, UAB Department of Mathematics, CH 483B, 1300 University Boulevard, Birmingham, Alabama 35294-1170.
Telephone 205-934-2154
E-mail karpeshi@uab.edu
Web http://www.uab.edu/cas/mathematics/

Physics
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: Ph.D., M.S.
Director: Dr. Mary Ellen Zvanut
Phone: (205) 934-6661
E-mail: mezvanut@uab.edu
Web site: http://www.uab.edu/cas/physics/graduate

Program Information
Students in the M.S. and Ph.D. programs may specialize in any of the areas of interest to the faculty, including experimental physics and theoretical and computational physics, or biophysics and medical applications of physics.

Admission
Admission into the physics graduate program is by recommendation of the graduate admission committee of the Department of Physics. The committee takes into consideration GRE General Test scores, prior academic performance, personal statement, prior research experiences,
and the letters of evaluation, usually from former instructors and research supervisors.

**Beginning the Program**

All students must take a placement examination on basic physics concepts before registering for any courses. Upon arrival at UAB, international students may be required to take English as a Second Language course or Scientific Communication courses at UAB during their first year of study.

**M.S. Program**

**Plan I**

The student must successfully complete at least 30 semester hours of coursework, including at least four core courses selected from PH 610 - PH 650 PH 651, and PH 671 - PH 672 and 6 semester hours of Thesis Research PH 699). Equivalent directed reading course or courses may be substituted if approved by the graduate faculty. The student must also write and complete a successful oral defense of a thesis under the direction of a graduate faculty member. Additional coursework should be selected with the advice of the student’s graduate study committee to meet the particular needs of the student.

An interdisciplinary track for an M.S. degree Plan I is also offered. Students admitted to this track will typically hold a bachelor’s degree in a science area other than physics, such as astronomy, biology, chemistry, geology, mathematics, or psychology, or an engineering degree, including optics and materials science. Thesis research will be in an interdisciplinary area including , biophysics, chemical physics, mathematical physics, neurophysics, optics, materials science, or engineering physics. Students awarded an M.S. degree within this track will be prepared for an Assistant Research Physicist position, including qualification for co authorship, and would typically work under the direction of a doctoral-level person. The acquired skill would be highly marketable, as individuals trained in multidisciplinary areas for basic and applied research are increasingly in demand in industry, government laboratories, and other research institutions.

Acceptance into this interdisciplinary track will be through a Physics Graduate Faculty member who will be prepared to supervise the student’s thesis research and develop a plan of study. This plan of study will include a core of courses (Classical Mechanics, PH 561 - PH 562; Electromagnetic Theory, PH 545 - PH 546; and Quantum Mechanics, PH 550 - PH 551), 6 hours of Physics graduate level core courses most closely related to your research focus area (PH 610, PH 635, PH 650- PH 651, and/or PH 671 - PH 672), a minimum of 6 hours of graduate-level courses offered by other departments, and 6 semester hours of Thesis Research PH 699). The Department of Physics will establish an ad hoc Physics Interdisciplinary Track Committee to review and concur in each student’s plan of study. The student must also write and complete a successful oral defense of a thesis under the direction of a graduate faculty member.

**Plan II**

With approval of the physics graduate program director, a nonthesis option (Plan II) is available for all tracks in the Masters program. In this case, the graduate study committee requires an additional 6 semester hours of coursework instead of a thesis and gives the student an M.S.- degree exit examination.

**Ph.D. Program**

Students may choose from a Physics Track or Applied Physics Track. All students are required to pass a written qualifying examination covering the core areas of classical mechanics, electromagnetic theory, and quantum physics. In addition, an examination is given in one selected topic recommended by the graduate committee. The core exams must be taken at the first offering after completion of the appropriate course: PH 710, PH 750 - PH 751, and PH 771 or directed reading equivalents as approved by the graduate faculty. Students may take the exam two times, but no more than this. If the second attempt is required, it must be done so at the first offering following completion of the first attempt. Under no circumstances may any part of the examination be taken more than twice.

Following satisfactory completion of the core qualifying examinations and consultation with individual faculty members, the student selects a specific area for dissertation research under the supervision of an appropriate graduate faculty member. The student’s Graduate Study Committee, chaired by the major advisor, will outline a program of study including graduate courses and appropriate tools of research, such as computer and/or foreign language competency. Also, the Graduate Study Committee will administer an oral selected topic examination to test the student’s knowledge in the area of research. The student must pass this oral examination in no more than two attempts. Then, with direction from the major advisor, the student should focus on formulating and writing a formal research proposal that must be presented and defended before the Graduate Study Committee; this should lead to a recommendation from the committee for admission to candidacy. Dissertation research culminates in the successful oral defense of the dissertation.

**Physics Track: 90 total credit hours**

- Twenty semester hours of existing core course work chosen from classical physics, quantum physics, statistical physics, and electromagnetic theory. Two semesters of scientific communications is required.
- Nine semester hours of elective courses in physics
- Directed and Dissertation Research (at least 2 semesters of dissertation research are required to graduate)

**Applied Physics Track: 90 total credit hours**

- Fourteen semester hours of existing core course work chosen from classical physics, quantum physics, statistical physics, and electromagnetic theory. Two semesters of scientific communications is required.
- Twelve semester hours of elective courses in applied physics
- Three semester hours of applied physics internship
- Directed and Dissertation Research (at least 2 semesters of dissertation research are required to graduate)

Core and elective courses are listed at http://www.uab.edu/cas/physics/graduate/programs-of-study

The following doctoral fellowships are available to the graduate students enrolled in the PhD program in physics at UAB.

**UAB Graduate Fellowship in the Arts and Sciences**

Students applying for the PhD program will be considered for the UAB Graduate Fellowship in the Arts and Sciences award. This fellowship offers a substantial annual stipend, plus tuition and fees, and honors
applicants to PhD programs in the UAB College of Arts and Sciences who show exceptional promise in research and scholarship. Fellowships are granted for one year, with possible continuation for a second. In subsequent years, students may compete for one of several fellowships and research assistantships available for senior graduate students in the Department of Physics.

**Department of Education – Graduate Assistantship in the Areas of National Need (GAANN)**

The U.S. Department of Education has funded the University of Alabama at Birmingham (UAB) Department of Physics for three years, 2015-18, to support the department’s doctoral students in their academic pursuits. The funding released through the fiscal year 2015 Graduate Assistance in Areas of National Need (GAANN) program, will support four physics Ph.D. students at a stipend level up to $32,000 depending on the financial need of the applicant as assessed by the UAB Office of Financial Aid. The GAANN program also makes an annual institutional payment of $14,724 per student to cover educational expenses. The project title for the UAB physics program is “Doctoral Fellowships in Nanoscale Materials and Computational Physics at the University of Alabama at Birmingham”. This distinctive program will lead to a Ph.D. degree in physics involving individualized academic course work, closely-supervised research experiences, optional industrial internships, continuous development of pedagogical and communication skills, and comprehensive supervision and evaluation of teaching performance.

**NASA-Alabama Space Grant Consortium Fellowships**

Awards are up to $37,000 ($24K in student stipend, up to $12K for tuition/insurance and $1K for student travel allowance) and are made initially for one 12-month period and may be renewed annually for a maximum total award of 36 months (3 years) support. Must be a U.S. citizen, enrolled full-time in good academic standing with a GPA of at least 3.0 on a 4.0 scale at an Alabama Space Grant member university pursing any space-related field of graduate study (Masters or Doctoral level). Must conduct a research activity related to space science and technology during the fellowship year. The details are to be provided in the applicant's research proposal package to the UAB EPSCoR Coordinator in Spring each year, and successful recipients are announced in late Summer.

**Bridge to the Doctorate Program**

For information about this Bridge to the Doctorate program please contact the Physics Graduate Program Director, mezvanut@uab.edu

**Additional Information**

<table>
<thead>
<tr>
<th>Deadline for Entry Term(s):</th>
<th>Each Fall semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline for All Application Materials to be in the Graduate School Office:</td>
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<tr>
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<tr>
<td>Entrance Tests:</td>
<td>GRE (TOEFL and TWE also required for international applicants whose native language is not English.)</td>
</tr>
<tr>
<td>Comments:</td>
<td>GRE General Test is required; in addition, subject test is recommended</td>
</tr>
</tbody>
</table>

For detailed information, contact Dr. Mary Ellen Zvanut, UAB Department of Physics, CH 384, 1720 2nd Avenue South, Birmingham, AL 35294-1170.

Telephone 205-934-4736

E-mail mezvanut@uab.edu

Web http://www.uab.edu/cas/physics/graduate

**Psychology**

**Graduate Programs**

The Department of Psychology offers three doctoral programs: Behavioral Neuroscience, Lifespan Developmental Psychology, and Medical/Clinical Psychology. A terminal master's degree is not offered.

**Behavioral Neuroscience**

The Behavioral Neuroscience Doctoral Program is designed to prepare students for independent research and teaching in the neurobiology of behavior. Research training is provided by faculty in the Department of Psychology and in the UAB Schools of Medicine and Optometry, who share an interest in the biological basis of behavior. The course of study includes a core curriculum in neuroscience and recognizes the interdisciplinary nature of this field. Students gain strong backgrounds in behavioral science and in neuroscience and gain expertise in the content and techniques of selected areas of neuroscience as they apply to the study of behavior.

Faculty laboratories are equipped for research in behavior, neuroanatomy, neurochemistry, neuroimaging, neuropharmacology, neurophysiology, and molecular biology. The research interests of the faculty include neuroanatomy and neurophysiology of the visual system; interactions between the central nervous system and the periphery in the control of feeding and energy balance; neural underpinnings of obesity and plasticity in participants in a weight loss program; autism; emotional...
substances of conditioned fear; neurophysiology and neuropharmacology of pain.

**Lifespan Developmental Psychology**

The Lifespan Developmental Psychology Doctoral Program trains scientists to conduct research to discover and apply basic principles of developmental psychology in an interdisciplinary context and to apply those principles to a variety of problems. Graduates are capable of taking positions in institutions of higher learning, medical schools, research institutions, government agencies, and other research and teaching positions. Research training is provided by the faculty of the Department of Psychology and may occur in collaboration with faculty at the Civitan International Research Center, the Center for Aging, the Center for Applied Gerontology, the Department of Pediatrics, The School of Public Health, and other centers and departments.

The research programs of faculty with interests in lifespan developmental psychology include a wide variety of topics from infancy to the elderly. Much of this research is funded by federal research grants. Research subareas include: developmental disabilities (with special interests in Autism Spectrum Disorders, prenatal development and exposure to toxic substances, early intervention, adolescent psychosocial development and mental health, and how family members adapt to the problems of a child with a disability); adolescence (with special interest in longitudinal studies, interactions between health and development, alcohol and drug use, predictors of depression and suicide, family and peer relations, those with special health care or education needs); and aging (with special interest in visual-perceptual problems of older adults with low vision, memory skills training with elderly populations, the psychological aspects of chronic illness in the elderly, chronically ill individuals, care giving in families of elderly persons, human factor issues in vision and aging).

Developmental Psychology students must complete a master’s thesis. Admission to candidacy for the doctoral degree is based on satisfactory completion of coursework and completion of an area review in the form of a Psychological Bulletin or Psychological Review article. The doctoral degree is awarded upon successful defense of the dissertation.

It is also possible to enroll in the Gerontology Certification Program concurrently with enrollment in the Lifespan Developmental Psychology Program. More information about this program may be found at: [http://www.aging.uab.edu/SubChannel/Training/pdf/tep-student-policy-2006.pdf](http://www.aging.uab.edu/SubChannel/Training/pdf/tep-student-policy-2006.pdf)

**Medical/Clinical Psychology**

The Medical/Clinical Psychology Doctoral Program trains students to become leaders in health promotion, disease prevention, risk reduction, and symptom assessment and amelioration in multidisciplinary and medical settings. Research, course work and clinical training emphasize behavioral and psychological factors associated with medical illness and injury as well as neurobehavioral disorders across the lifespan. The Medical/Clinical Psychology Program is accredited to offer training in clinical psychology by the American Psychological Association.

The Department of Psychology (College of Arts and Sciences) and the UAB School of Medicine co-sponsor the Medical/Clinical Psychology Doctoral Program. Program faculty are distributed across multiple academic departments and divisions, including but not limited to Psychology, Psychiatry, Pediatrics, Neurology, Preventive Medicine, Clinical Immunology and Rheumatology, and Physical Medicine and Rehabilitation. Clinical psychologists and researchers in UAB-affiliated clinical and research centers, the Children’s Behavioral Health System, the Birmingham VA Medical Center and throughout the community also play active roles in teaching as well as research and clinical supervision.

Research programs in which faculty and students are currently involved include: accidental injury and child abuse risk prevention; adolescence, aging, autism spectrum and other neurodevelopmental disorders and developmental disabilities; chronic pain; coping with stress and illness, dementia, eating disorders and obesity; epilepsy; minority health issues and health disparities; neural plasticity; neuroimaging, pediatric oncology; rehabilitation following traumatic brain and spinal cord injury, stroke and neurobehavioral disease; sleep and feeding problems of childhood and substance abuse.

With the approval of both programs it is possible to complete the Master’s in Public Health program and the Medical/Clinical Psychology program concurrently.

**Application**

The deadline for receipt of complete applications for admission is: **November 30 for all three programs.** Applications are invited both from students with bachelor’s degrees and from those who may have already completed some graduate study. The GRE General Test is required. The GRE Psychology Test is required for students applying for the Medical/Clinical Psychology Program.

**Admission**

Admission to the Psychology graduate programs is highly selective. Applications are evaluated as a whole without minimum criteria on single scores or other indicators. Transcripts are evaluated for the content and difficulty of courses completed as well as grades received. All programs follow an affirmative action/equal opportunity process to ensure that all applicants are evaluated fairly and on the basis of their individual merit. Further information regarding admission to the three programs appears below:

**Behavioral Neuroscience**

Because of the interdisciplinary nature of this program, students with diverse backgrounds in psychology, biology, and physical science are encouraged to apply. All students are expected to have undergraduate training in psychology, biology, physics, chemistry, and mathematics. Students not trained in one or more of these areas may be required to make up deficits after enrollment.

**Lifespan Developmental Psychology**

Admission to the Lifespan Developmental Psychology program requires a solid background in psychology as well as some courses in the life sciences. Research experience is essential. Excellent grades in statistics and mathematics are also valued.

**Medical/Clinical Psychology**

The Medical/Clinical Psychology program requires a strong background in psychology (including statistics and research design; cognitive, biological, and affective bases of behavior; abnormal psychology and personality). Advanced course work in mathematics and natural science (especially anatomy and physiology) is also recommended. Relevant research experience is considered an important indication of the applicant's motivation and commitment to program goals, and prior experience with clinical populations is also advantageous. The relevance of the applicant's goals and interests to ongoing activities of program faculty...
is weighed heavily in admissions decisions. Please visit the program website for further information on admissions (including characteristics of admitted students) and program outcomes.

**Advisement**

Behavioral Neuroscience students are advised by their Program Director in consultation with a program steering committee and by their research preceptors until the dissertation committee is appointed, usually early in the third year of study.

Students accepted into the Lifespan Developmental Psychology specialization are matched with a faculty member who agrees to mentor that student. Therefore, applicants will need to identify faculty members with whom they share research interest and would like to study.

Medical/Clinical Psychology students are advised by the Program Director until their research mentor is determined and an advisory committee is appointed, typically during the first year.

**Financial Aid**

All students admitted to the Behavioral Neuroscience, Lifespan Developmental Psychology, and Medical/Clinical Psychology programs may expect to receive financial aid for at least 5 years. Sources of support include fellowships and tuition scholarships, as well as research, clinical and teaching assistantships.

**Additional Information**

For detailed information on all three programs, contact the Graduate Programs Office, UAB Department of Psychology, Campbell Hall Room 201, 1300 University Blvd., Birmingham, AL 35294-1170. The program office and all three program directors can be reached by telephone at 205-934-8723. Contact information for the individual programs is shown below:

Dr. Franklin R. Amthor, Interim Director, Behavioral Neuroscience
Doctoral Program
Telephone 205-934-2694
Email amthorfr@uab.edu.
Web: [http://www.uab.edu/cas/psychology/graduate/behavioral-neuroscience](http://www.uab.edu/cas/psychology/graduate/behavioral-neuroscience)

Dr. Fred J. Biasini, Director, Lifespan Developmental Psychology
Doctoral Program
Telephone 205-934-2610
Email fbiasini@uab.edu.
Web: [http://www.uab.edu/cas/psychology/graduate/lifespan-developmental](http://www.uab.edu/cas/psychology/graduate/lifespan-developmental)

Dr. Edwin W. Cook III, Director, Medical/Clinical Psychology Doctoral Program
Telephone 205-934-8723
Email eccook@uab.edu.
Web: [http://www.uab.edu/cas/psychology/graduate/medical-clinical-psychology](http://www.uab.edu/cas/psychology/graduate/medical-clinical-psychology)

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**Behavioral Neuroscience**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

The curriculum in Behavioral Neuroscience provides a student with advanced training that is broadly based in neuroscience. All students have a plan of coursework that includes Overview of Behavioral Neuroscience (PY 753), a two-semester statistics sequence (PY 716-PY 717), and an ongoing seminar in current research (PY 756). Advanced academic coursework is determined by the student and mentor. The student initially rotates among faculty and laboratories during the first year to obtain breadth in points of view and experimental techniques. Student then chooses a mentor with whom they normally complete the remainder of their research training. Before admission to candidacy, each student must fulfill the pre-dissertation research requirement and pass the qualifying examination. Following acceptance of a proposal for dissertation research, the student is admitted to candidacy. The Ph.D. degree is awarded upon successful defense of the dissertation.

**Lifespan Developmental Psychology**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Each student in the Lifespan Developmental Psychology specialization is encouraged to develop a systematic line of research that complements that of his or her advisor. With intense exposure to an important aspect of developmental research, the student acquires skills that can be generalized to a variety of problems. Students are required to complete a core curriculum which includes 21 hours of developmental psychology classes, 15 hours of research design and statistics, 9 hours of general psychology and related discipline classes; 6 hours of teaching practicum and teaching; and at least 48 credit hours of research.

Lifespan Developmental Psychology students must complete a master’s thesis. Admission to candidacy for the doctoral degree is based on satisfactory completion of coursework and completion of an area review in the form of a *Psychological Bulletin* or *Psychological Review* article. The doctoral degree is awarded upon successful defense of the dissertation.

**Medical/Clinical Psychology**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

The Medical/Clinical Psychology specialization places strong emphasis on integration of biological and behavioral sciences. Thus, the research and clinical training that the program provides assumes an undergraduate background in both psychology and life science. The program engages students in continued pursuit of knowledge and skill fundamental to research and clinical practice. In addition, students focus their research and a clinical training in one or more of the several areas of clinical and health psychology that the program emphasizes, and pursue advanced scientific and applied coursework, clinical practica, and directed research activities that culminate in the doctoral dissertation.

Course requirements for the Medical/Clinical Psychology specialization include:

1. General Psychology and Neuroscience – cognitive, biological, social, emotional and developmental bases of behavior, as well as the history of the discipline
2. Statistics and Research Design – statistical methods, research design, and the responsible conduct of research. The statistics courses have associated computer labs.

3. Foundations of Clinical and Health Psychology – personality, psychopathology, an overview of psychotherapeutic methods, health psychology and the ethics of professional practice

4. Psychological Assessment and Intervention – interviewing; behavioral, cognitive and personality assessment; and an introduction to cognitive-behavior therapy.

Additional courses and/or seminars may be taken as electives and may be required depending on the student's area(s) of emphasis.

Students in Medical/Clinical Psychology are actively engaged in research throughout the entire time that they are enrolled in the program and typically complete a master's thesis project during their second or third year. Clinical practicum experiences begin in the summer of the first year, and in their final year students complete an APA-accredited clinical psychology internship. The doctoral degree is awarded upon successful defense of the dissertation and internship.

Sociology

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should use the following checklists:

Sociology (MA)
Medical Sociology (PhD)

Degree Offered: M.A. in Sociology, Ph.D. in Medical Sociology

Director: Dr. Patricia Drentea
Phone: (205) 934-2562
E-mail: pdrentea@uab.edu
Web site: http://www.uab.edu/sociology/graduate-programs

Medical Sociology

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Medical Sociology Ph.D. Program

This program is designed to provide students with the coursework and research experiences to become leading researchers and practitioners in medical sociology. Doctoral training in medical sociology exposes students to the central issues of the field through a variety of methodological techniques encompassing both qualitative and quantitative approaches. Graduate students study the social and cultural bases of health beliefs and behaviors, organizational structures of health care delivery, and patient-practitioner relationships, to name just a few examples. Students acquire expertise in theory formulation and data analysis.

There are abundant opportunities for graduate students to work with faculty on research projects in medical settings across the campus.

Admission

Admission to the Ph.D. program in medical sociology generally requires a minimum overall score of 1150 on the old GRE (verbal and quantitative). The GRE test was revised in 2011, scores on this test should range from 150-162 verbal and 140-157 Quantitative. Minimum GPA of 3.0 (A = 4.0), or a 3.2 GPA for the last 60 semester hours in a B.A. or B.S. program; and minimum GPA of 3.5 in all previous graduate coursework. Students should have completed at least 18 hours in social science courses, including social theory, statistics, and research methods. Students entering the program with a master's degree can waive 16 hours of courses, of which 6 credits are thesis research credits. Please see the sociology website for more information coming in with an MA, MPH, or MS. Because of the interdisciplinary nature of the Medical Sociology Ph.D. program, students with diverse backgrounds in social science and health-related fields are encouraged to apply. Students lacking adequate backgrounds in theory, research methods, or statistics may be required to make up deficits after enrollment.

Advising

The Graduate Director and/or the student's faculty mentor will provide continuous advisement on academic progress during the student's graduate study, including assistance with course selection and recommendations for research experiences that are consistent with the student's developing interests and abilities. In addition, each year the student will be formally evaluated by the Graduate Committee and will be provided with performance feedback.

Research supervision is provided by faculty whom students select to chair the master's thesis and doctoral dissertation committees. Typically, the student will select persons with whom a close, supportive relationship develops.

The placement of Ph.D. students in research sites within the Department and/or in areas across campus is an important part of the Medical Sociology Program. Such placements usually involve assisting faculty on research grants. Such experiences provide students with invaluable real-life exposure to medical sociology "in action." As such, they are important accompaniments to the coursework of the Ph.D. program. Teaching and research positions are offered to students based on department needs, funding available and student merit.

Curriculum

The components of the Ph.D. program are as follows:

1. Required Coursework

Medical Sociology Core (9 hr)

Required:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 780</td>
<td>3</td>
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</table>

2 of 5 Required Electives:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 734</td>
<td>3</td>
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<tr>
<td>SOC 724</td>
<td>3</td>
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<tr>
<td>SOC 735</td>
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<td>SOC 755</td>
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<td>SOC 756</td>
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<tr>
<td>SOC 775</td>
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<tr>
<td>SOC 781</td>
<td>3</td>
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<tr>
<td>SOC 783</td>
<td>3</td>
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<tr>
<td>SOC 785</td>
<td>3</td>
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</tbody>
</table>
The second acceptable type of document is a manuscript in the standard form of a journal article with appended materials. Specifically, this journal article thesis will consist of:

1. A forward which places the research in context, specifying the journal to which the article is to be submitted, delineating the rationale for co-authorship (if appropriate), and making acknowledgments;
2. A journal article manuscript with a text no longer than the page limitations of a journal selected by the committee, plus footnotes, references, tables, and figures;
3. An appendix with an annotated bibliography of relevant literature;
4. An appendix that details, in full, the methodological procedures;
5. An appendix of measurement instrumentation (e.g., survey instruments, in-depth interview schedules, observational logs, etc.);
6. An appendix of additional tables and/or samples of observational notes;
7. An appendix of other research documentation such as survey cover letters, human subject review approval forms, and letters of support and approval from facilities at which the research was conducted.

The master's thesis process involves:

1. Formation of the thesis committee;
2. Oral defense of a written thesis research proposal;
3. Oral defense of the completed thesis;
4. Submission of the completed manuscript to the Graduate School;
5. Submission of the journal article for publication.

The thesis committee consists of a minimum of three full-time faculty members, including one from outside the Department of Sociology. This committee will be responsible for guiding the research process, evaluating the final draft of the thesis, presiding over the oral defenses of the thesis proposal and the completed manuscript, and approving the journal article for submission for publication. In addition to meeting general M.A. degree requirements, before being admitted to candidacy for the M.A. degree, a student in the Ph.D. program in Medical Sociology must have completed the master's level core courses in theory (SOC 711), completed two of the five courses in the medical sociology core, and made a successful oral defense of the thesis proposal.

For those students entering with a master's degree, the graduate director will review the student's transcript, evaluate course transfers (if any), and devise a course plan. This student's doctoral advisory committee also will handle the student's admission to candidacy and the requirement of submitting a journal article for review. The student with the master's degree will not be required to make oral defenses of his/her thesis work from another institution.

4. Comprehensive Exams

All doctoral students who enter the program in Fall 2010 or later must take a comprehensive examination no later than the end of the third summer after being admitted to the Ph.D. program.

The comprehensive examination should be taken in a specialty area chosen by the student. The specialty area must be a combination of health and one substantive area reflecting the specialties of the faculty (e.g., aging and health, health behaviors, community health, health and demography, health and family, health inequality, health policy, etc.). The advisory committee will consist of three faculty members selected by the Graduate Committee. Prior to taking the examination, the student should
meet with the advisory committee to develop a reading list based on the specialty area. Comprehensive exams will be offered in the 3rd week of fall and spring semesters. Please see the department handbook for more information.

The comprehensive examination will include five questions decided by the advisory committee reflecting major theoretical, methodological, and substantive issues in the student’s chosen specialty area. The student will answer four of the five questions as a take-home exam, which will be distributed at 4:00 p.m. Friday and will be due the following Monday at 9:00 a.m. The members of the advisory committee will grade the examination on a pass/fail basis. Students who fail the examination but wish to continue in the program must take a make-up examination in the following Fall Semester. Students who fail the make-up examination will be terminated from the Ph.D. program. Failure to take the exams by the third summer in the program will lead to an evaluation of not making sufficient progress and may result in funding being ended. Graduate students may not discuss their exam with anyone during examination time. They may discuss any clarification questions with the chair of the comprehensive advisory committee if needed.

5. The Doctoral Dissertation
The dissertation process is as follows:
1. Formation of the dissertation committee;
2. Oral defense of a written dissertation research proposal;
3. Oral defense of the completed dissertation;
4. Submission of the completed manuscript to the Graduate School.

In consultation with faculty, and near the completion of all substantive coursework, a student forms a dissertation committee consisting of at least five members, with two from outside the Department of Sociology. This committee will be responsible for guiding the research process, evaluating the final draft of the dissertation, and presiding over the oral defenses of the dissertation proposal and the completed manuscript. A student is admitted to candidacy after successful oral defense of the dissertation proposal and no earlier than the term in which the required substantive coursework is completed.

Financial Aid
All students admitted to the Ph.D. program will be considered for financial aid. Sources include graduate fellowships and assistantships.

Additional Information
Deadline for Entry Term(s): Fall
Deadline for All Application Materials to be in the Graduate School Office: March 1
Number of Evaluation/recommendation Forms Required: Three
Entrance Tests: GRE (TOEFL, IELTS and TWE also required for international applicants whose native language is not English.)

Ph.D. Program in Medical Sociology http://www.uab.edu/sociology/

For detailed information, contact UAB Department of Sociology, HHB 460A, 1401 University Boulevard, Birmingham, Alabama 35294-1152.

Telephone 205-934-2562
E-mail pdrentea@uab.edu
Web http://www.uab.edu/sociology/

Sociology
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Sociology M.A. Program
The Department of Sociology offers two plans (Plan I and Plan II) for the M.A. Degree

Requirements for the M.A. Degree (Plan I)
Plan I students pursuing the M.A. degree in Sociology must have been admitted into the Medical Sociology Ph.D. program. To be admitted in good standing, candidates must meet all Graduate School admission requirements.

Plan I applicants lacking 18 semester hours in social science courses will be evaluated individually for academic deficiencies. Supplemental coursework may be recommended by the graduate faculty. The program provides a Plan I (thesis) option. The M.A. degree is conferred upon the fulfillment of the requirements outlined below.

All of the following core courses are required for all students:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 601</td>
<td>Data Management and Analysis</td>
</tr>
<tr>
<td>SOC 702</td>
<td>Proseminar: The Profession of Sociology (The Proseminar is a one credit course that needs to be taken three semesters in a row, adding to a total of 3 credits.)</td>
</tr>
<tr>
<td>SOC 703</td>
<td>Regression Analysis</td>
</tr>
<tr>
<td>SOC 705</td>
<td>Advanced Research Methods</td>
</tr>
<tr>
<td>or SOC 711</td>
<td>Qualitative Methods</td>
</tr>
<tr>
<td>SOC 720</td>
<td>Classical Theory</td>
</tr>
<tr>
<td>SOC 722</td>
<td>Contemporary Sociological Theory</td>
</tr>
</tbody>
</table>

2 or more substantive courses (these may be in areas outside of Sociology, subject to approval by the Sociology graduate program director)

Additional requirements for the Plan I M.A. degree include the following:
- 6 semester hours of thesis research
- An acceptable research-based thesis
- A final oral examination based on the thesis

Requirements for the M.A. Degree (Plan II)
Plan II is an Applied M.A. option which provides strong disciplinary training, along with professional and research experience, to prepare students for careers in business, non-profits, government agencies and the continued professional development of teaching careers. To be admitted in good standing, candidates must meet all Graduate School admission requirements.

The Plan II option is a non-thesis plan. A six-hour faculty-directed applied/community capstone project, undertaken at the conclusion of the program, provides an opportunity to synthesize all previous course
material and meets the final requirement for the plan II M.A. in Applied Sociology.

Students deciding to move into the Medical Sociology Ph.D Program will need to meet the core requirements from Plan I.

Students interested in learning more about the Plan II Applied Sociology M.A. should contact Dr. Cullen Clark, Applied Sociology M.A. plan, 205-934-3322, or write culclark@uab.edu.

All of the following core courses 18 hours are required for all students in the Plan II M.A. in Applied Sociology Program:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 713 Intro to Applied Sociology Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 723 Applied Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOC 726 Applied Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 727 Applied Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 776 Capstone Project</td>
<td>6</td>
</tr>
</tbody>
</table>

Four additional classes are required for all students to fully matriculate. Choose FOUR classes from the following list, adding up to 12 hours:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 711 Qualitative Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 715 Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>SOC 728 Teaching Sociology</td>
<td>3</td>
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<tr>
<td>SOC 729 Consumer Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOC 737 Practicum in Innovation, Creativity, and Applied Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 745 Sociological Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC 760 Sociology of Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC 781 Sociology of Health and Illness</td>
<td>3</td>
</tr>
<tr>
<td>SOC 783 Health Care Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 786 Health Disparities</td>
<td>3</td>
</tr>
<tr>
<td>SOC 789 Patient Care Relations/Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Completion of the training requirements in one of the above interdisciplinary themes provides eligibility for conferral of one of the following PhD degrees:

- Biochemistry and Molecular Genetics
- Cell Biology
- Cellular and Molecular Physiology
- Genetics
- Microbiology
- Neurobiology
- Pathology
- Pharmacology and Toxicology

For more information regarding GBS Interdisciplinary themes and departments, visit the GBS website at http://www.uab.edu/gbs/home/

Biochemistry & Structural Biology Theme

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to the Graduate School.

**Director:** Dr. David Schneider  
**Program Manager:** Kristin Boggs  
**E-mail:** bsb@uab.edu  
**Phone:** (205) 934-7810  
**Web site:** http://www.uab.edu/gbs/bsb

**Theme Information**

**Objectives**

Biochemistry & Structural Biology is looking for students who have a strong desire to understand life at the molecular level. Our goal is to teach the skills, implant the inspiration, encourage imagination, and nurture the dedication essential for our graduates to become world-class researchers.

Our faculty and students are dedicated to excellence in both coursework and research programs, and we are honored that our team’s accomplishments and discoveries have been chronicled in (Nature, Structure, other names here) and other noted journals and publications of record. New students join a select family of faculty and students who work and study together within the Biochemistry and Structural Biology Theme at UAB. We teach you how to think- what questions to ask and where to search for answers. We give you the skills and background necessary to launch a successful scientific career as an independent researcher.

Whether you choose to pursue advanced studies in molecular genetics, stem cell biology, or many of the diverse areas of research within the Biochemistry and Structural Biology theme, you will find the work interesting, challenging and rewarding. It piques the curiosity, sparks the imagination, enlists your resourcefulness and brings a sense of fulfillment that comes from exciting research and exhilarating discover.

**Admission Requirements**

The BSB theme encourages applications from students interested in receiving a graduate degree in biomedical sciences. Applications are strongly encouraged from individuals with previous work experience, a
master’s degree in related area, or a professional degree such as the M.D., D.M.D., D.V.M. or O.D.

Applications will be reviewed by the Graduate Biomedical Sciences Admissions Committee. Acceptance will be based on undergraduate performance (both the curriculum and grade point average), letters of recommendation, GRE scores, a personal statement of research interests, performance in other graduate programs or research activities and, if possible, a personal interview.

Acceptance into the BSB theme requires a bachelor’s degree including undergraduate coursework in calculus, general and organic chemistry, and at least one introductory course in zoology or biology by the time of entrance.

The general requirements for acceptance into the program are –

- Minimum GPA of 3.0 on a 4.0 scale
- Combined verbal/quantitative score on the GRE of 300 (new test) or 1100 (old test)
- A strong background in biology, chemistry, and/or mathematics.
  Undergraduate level courses in cell biology, biochemistry, developmental biology, and genetics are strongly encouraged.
  Undergraduate mathematics through calculus and physics are also recommended.

International students must submit scores from the Test of English as a Foreign Language (TOEFL) earned within the last two years. Applicants with scores of 600 (paper-based) or 80 (internet-based) or higher will be considered.

Biochemistry and Structural Biology (BSB) Curriculum

YEAR 1

Laboratory Rotations

- Three laboratory rotations - 10 weeks each
- Select dissertation advisor in the Spring following lab rotations.

Course Work

- August - October: GBS Core Course; 8:00 a.m. - 10:00 a.m. every weekday
- November - December: BSB Laboratory Methods Course; 8:00 a.m. - 10:00 a.m. every weekday

January - April: BSB courses - 1 month each:

- January - Molecular Enzymology
- February - RNA Biology
- March - Molecular Genetics
- April - Stem Cell Biology

YEAR 2

- Choose Thesis Committee - Mentor plus four faculty members
- Thesis Research
- Three Advanced Courses
- Journal Club
- Graduate Student Research Meeting (meets once a month)

YEARS 3 and 4

- Completion of advanced course work
- Thesis Research
- Journal Club
- Graduate Student Research Meeting (meets once a month)
- Qualifying Exam on thesis project - Written proposal and defense (3rd yr.)

YEARS 5+

- Dissertation research
- Dissertation Defense (public and private)

Biochemistry & Structural Theme Faculty

The faculty listing for the Biochemistry and Structural Biology theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=BSB

Additional Information

Application Deadline

Refer to Theme website for deadline information: http://www.uab.edu/gbs/bsb

Letters of Recommendation

Three letters required

Entrance Tests

GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For more information, contact:

Kristin Boggs
Program Manager, Biochemistry & Structural Biology Theme
1825 University Blvd; SHEL 120-E
Birmingham, AL 35294
Tel: 205.934.7810
Fax: 205.996.6749
E-mail: kboggs@uab.edu

Cancer Biology Theme

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Co-Directors:

Lalita Shevde-Samant, Ph.D.
Theresa Strong, Ph.D.

Phone: (205) 934-7034
E-mail: cancerbio@uab.edu
Web site: www.uab.edu/cancerbio

Theme Information

The goal of the Cancer Biology Program is to train the next generation of cancer biologists so that they will make significant contributions to basic and clinical research. Students will receive training over a broad base–integrating molecular, cellular, biochemical and biological experimental approaches. Combinations of courses, seminars, small group discussions and hands-on research provide each student with a customized dissertation experience. Students will have opportunities to work with outstanding investigators throughout the UAB campus in the areas of tumor microenvironment, metastasis, cancer genetics, stem
cells, gene therapy of cancer, pharmacology/toxicology, signaling and tumor immunology. Successful graduates will have a firm foundation upon which they can build careers in academia, research institutions, industry or government.

Students are expected to complete the entire program in four or five years. During the first year, students will participate in the GBS core curriculum and will begin more specialized training by exploring potential laboratories in which they may do their dissertation research as well as courses representing the multiple disciplines involved in cancer research. A course focusing on “classic papers” in cancer research will set the stage for modern approaches to studying the disease. Following three laboratory rotations, each student will select a mentor for his/her dissertation research. Following the core curriculum, students will begin specialized cancer research electives.

During the second year, students will complete their specialized courses and will participate in journal clubs and special topics curricula. After the second year, cancer biology students will write a proposal for their dissertation research and presented to their graduate advisory committee for approval. The focus following advancement to candidacy is hands-on research, although students can elect to participate in other advanced courses that will round out their education or provide opportunities to expand the research.

Admission Requirements

A baccalaureate degree in the natural or physical sciences is required. Undergraduate level courses in organic and analytical chemistry, cell biology, biochemistry and genetics are strongly encouraged. Undergraduate mathematics through calculus and physics are also recommended. See individual Program Admissions information for program-specific required or recommended courses.

The Graduate School recommends that entering students have a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a minimum combined verbal/quantitative score on the Graduate Record Exam (GRE) > 300.

International students must submit scores from the Test of English as a Foreign Language (TOEFL) earned within the last two years. Applicants with scores of 600 (paper-based), 250 (computer-based), or 100 (IBTS) or higher will be considered.

Undergraduate or postgraduate research experience is essential. Students considered for the program must have a minimum of 6 months bench research experience.

Applications are reviewed by the Admissions Committee, representing all GBS thematic programs. Acceptance will be based on a combination of factors including:

- Undergraduate performance (both the curriculum and grade point average)
- Letters of recommendation
- GRE and, if applicable, TOEFL scores
- A personal statement of research and career interests
- Previous research experience
- Personal interview, at program expense (international applicants may be interviewed by phone or video conference)

Admission to our Programs is very competitive and the number of positions is limited; thus not every qualified applicant can be offered a position.

Financial Support

All students accepted into GBS programs receive a competitive annual stipend and fully paid tuition and fees. Single coverage health insurance is also provided at no cost to the student through VIVA Health UAB. The annual stipend for the current academic year is $29,000. The total annual award value, including stipend, tuition, fees and health insurance is > $37,500. Stipends are reviewed and updated regularly.

First-year students are funded through the Cancer Biology Graduate Program by Graduate School Fellowships and occasionally by other national and University fellowships. In subsequent years, students are supported through their advisor's research grants, institutional funds or training grants. In addition, highly qualified students are encouraged to apply for individual fellowship awards, with the guidance of their advisors. See Fellowships and Awards for additional fellowship information and resources.

Cancer Biology Theme Faculty

The faculty listing for the Cancer Biology theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=CB

Additional Information

Deadline for Entry Term(s): Consult Theme Website for information: http://www.uab.edu/cancerbio

International Applications Deadline: 15 January

Entrance Tests (University Code: 1856) GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact:
Patricia Matthews
Program Manager
UAB Cancer Biology Graduate Program
205.934.7034 (office)

pm1@uab.edu

Cell, Molecular, and Developmental Biology Theme

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Director: Dr. Bradley K. Yoder
Phone: (205) 934-0994
E-mail: byoder@uab.edu
Web site: www.uab.edu/cmdb
Theme Information

Objectives

The Cell, Molecular, and Developmental Biology (CMDB) graduate theme is part of an umbrella graduate program in Biomedical Sciences that focuses on basic process in cell, molecular and developmental biology and how defects in these processes result in human diseases and birth defects. CMDB students will receive comprehensive training and instruction in cell, molecular, and developmental biology using modern tools and approaches as well as a wide range of model organisms and cell culture systems. The overall goal of the theme is to develop well-rounded scholars with expertise applicable to multiple fields pertinent to a productive research and teaching career in academic science centers, research institutions, and industry.

Admission Requirements

Students are admitted into UAB Graduate Biomedical Sciences (GBS) umbrella program and indicate a theme preference. Applicants to the UAB Graduate School are reviewed by the GBS Admissions Committee and will be evaluated on the basis of their undergraduate performance (both the curriculum and grade point average), letters of recommendation, GRE scores, a personal statement of research interests, performance in other graduate programs or research activities and, if possible, a personal interview. Although students select a theme on admission into the GBS program, they may change theme affiliation at anytime; however changes that occur late in the doctoral program may require additional fundamental course work related to the specific theme.

Acceptance into CMDB requires a bachelor’s degree including undergraduate coursework in calculus, general and organic chemistry, and at least one introductory course in zoology or biology by the time of entrance. The CMDB theme invites applications from individuals committed to obtaining a graduate education in biomedical sciences. Once accepted into GBS, students must complete the GBS core curriculum and three scientific research rotations in GBS laboratories. CMDB students will then begin course work in areas related to his/her research interests and training needs determined through the advice of faculty mentors and staff.

Overview of the CMDB Theme

The CMDB theme is comprised of over 150 primary and secondary faculty members with appointments in many of the academic departments and Centers at UAB including Cell, Developmental and Integrative Biology, Genetics, Biochemistry, Neurobiology, Medicine, Oral and Maxillofacial Surgery, Nutrition Sciences, Cardiovascular Disease, Clinical Immunology, Rheumatology, Pathology, Environmental Health Sciences, Psychiatry & Behavioral Neurobiology, Vision Sciences and Optometry. The scientific interests of the faculty are very diverse and interdisciplinary in nature. As such, the CMDB theme can provide students an individually tailored, comprehensive training program in cell, molecular, and developmental biology using modern tools and approaches in a wide range of model organisms. The research conducted by CMDB faculty addresses fundamental cellular and molecular questions that provide the basis for understanding and treating human disease.

In the first semester, all students accepted into the GBS program will complete a 14-week core course covering fundamentals in biochemistry, metabolism, genetics, molecular and cellular biology. After completion of the core GBS curriculum, CMDB students will complete a course entitled Cell Signaling. In addition, starting early in the first semester each student will obtain research experience through three laboratory rotations that will be completed by the end of the first year. Laboratory rotations are for ten weeks and are an integral part of the first year curriculum. They are the first opportunity to truly experience what graduate level scientific research is all about. These rotations are highly structured and are meant for you to become acquainted with the laboratory and the mentor and to gain practical experience in a variety of the techniques and types of scientific questions being addressed within the different theme areas. At the end of each rotation the students will present their research in the form of a poster presentation that is open to the GBS community. After completion of the rotations, students choose a mentor and laboratory for their dissertation research.

In the second semester, CMDB students will complete a series of one month modules in areas related to cell, molecular and developmental biology that are in the general research and scientific interest of the individual student. The CMDB curriculum is tailored to the student’s research and scientific interests. As such, the student will be able to select from modules in the CMDB theme as well as from other GBS themes approved by the student’s mentor and the CMDB theme directors. The student must complete eight modules, and may select from any of the GBS 1st year course offerings. Additional course work may be required to fill gaps in the student’s knowledge based on the recommendation of the mentor and the student’s thesis committee.

All CMDB students must attend Methods and Scientific Logic, a journal club designed to demonstrate how to critically evaluate data and experimental design in the scientific literature and research, complete a course in Biostatistics and Bioethics, as well as conduct non-dissertation research in their selected laboratories. At the beginning of the second year, students will assemble a thesis committee in consultation with their mentors. This committee will be formed by anywhere between 4 and 6 members, 3 of which should be faculty associated with the CMDB theme.

In the second year, students continue non-dissertation laboratory research and take module course work to fulfill the requirements described above. By the beginning of the third year, CMDB students must complete their qualifying examination consisting of a written dissertation research proposal in the format of an NIH style grant and an oral defense. The examination will evaluate whether the student has gained a sufficiently broad knowledge necessary for successful academic research. To help in this process, the second year curriculum will include a course in scientific writing and grantsmanship with a mock NIH grant review session. After successful completion of the exam the proposal will be submitted to a funding agency (if applicable) for possible support.

After the second semester, all students must participate in a CMDB approved Departmental Seminar Series and a weekly journal club until completion of the doctoral degree.

The curriculum of each Ph.D. candidate usually requires five years of training and is individually tailored to the interests and needs of the student by the advisor and a graduate committee chosen by the student. The Ph.D. degree is awarded upon successful defense of your dissertation, which includes an oral presentation of original, creative scientific investigations, and a written dissertation which is expected to include published manuscripts or manuscripts in preparation. Because pursuit of the Ph.D. degree is a full-time activity, all graduate students are supported by monetary stipends and do not have any required teaching duties. The level of activity required does not permit outside
jobs or excessive extracurricular activities. Continuous registration and satisfactory academic standing during all terms is required.

**Cell, Molecular, and Developmental Biology Theme Faculty**

The faculty listing for the Cell, Molecular, and Developmental Biology theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=CMDB

**Additional Information**

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<tr>
<th>Deadline for Entry Term(s):</th>
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<tr>
<td>Entrance Tests</td>
<td>GRE</td>
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For detailed information see Web http://www.uab.edu/gbs/cmdb/ or contact:

**Dr. Bradley K. Yoder**
Professor and CMDB Theme Director
byoder@uab.edu

**Dr. Alecia K. Gross**
Associate Professor and CMDB Theme Co-Director
agross@uab.edu (agross@uab.edu)

**Dr. Michelle Olsen**
Assistant Professor and CMDB Theme Co-Director
molsen@uab.edu

**Nan Travis**
CMDB Theme Administrator II
205.934.1033 Phone
205.996.6749 Fax
ntavis@uab.edu

**Course Descriptions - Cell, Molecular and Developmental Biology**

**Cell Signaling** - This course covers major extracellular and intracellular signal transduction cascades that regulate animal development and physiology. The class meets every day for 2 hours and consists of two exams.

**Cell and Molecular Aspects of Developmental Biology** - The goal of this course is to provide an introduction to the fundamentals of vertebrate developmental biology. The course will consist of faculty lectures and research paper discussion groups covering a broad range of developmental issues from fertilization to organogenesis.

**Developmental Neuroscience** - The course will utilize the scientific literature and faculty lectures to cover a broad range of topics related to the mechanisms of building a brain. The topics covered range from neural induction in early development, to axonal guidance and synapse formation, to neuro-glial interactions in the adult nervous system.

Grades will be based on two exams and student participation in class discussions.

**Stem Cell Biology** - This course will explore the derivation, manipulation, and differentiation of embryonic, fetal, and adult stem cells in both mice and humans. Topics to be discussed include stem cell self-renewal, teratoma formation, hematopoietic stem cells, neural stem cells, trans-differentiation, nuclear transfer, and reproductive and therapeutic cloning. The course will be a mixture of instructor lectures and interactive journal club style presentations from the current stem cell literature by the students. Students will be evaluated based upon their journal article presentations, participation in class discussions, quizzes, and attendance.

**Development and Evolution** – This course will cover the developmental mechanisms that drive evolutionary change and how body plans evolve through natural selection. The course consists of lectures and scientific literature discussions that will demonstrate developmental biology principles.

**Skeletal Development and Disease** - The primary goal of this course is to introduce graduate students to the basic and translational knowledge about development, maintenance and homeostasis of the mineralized tissues. Lectures in this course will focus on approaches and techniques that are utilized for understanding cellular and molecular mechanisms essential for the normal development, remodeling and patho-physiology of skeleton.

**Mechanisms of Birth Defects** - This class will provide an overview of the mechanisms of common birth defects. A review of the development of each organ system is followed by a discussion of molecular mechanisms leading to alterations in normal development. Genetic and environmental mechanisms are discussed. A recent paper on each topic is presented as part of the class. Depending on the number of students enrolled, each student will be required to present one or two papers.

**Grantsmanship and Scientific Writing** – The objective of the course is to teach students how to effectively write grant proposals. This course will provide hands on training in the preparation of a grant application and demonstrate effective strategies for assembling a successful proposal. With guidance from the faculty, the students will write a NIH style proposal on their dissertation research topic. After the proposal is complete, each grant will be reviewed in a mock NIH study section. Based on the comments from the study section, the student will revise the application and submit the proposal to his/her thesis committee as part of the qualifying examination for admittance into candidacy.

**Laboratory Rotations.** Concurrent with the first year of course work, each student will perform laboratory research with mentors of his/her choosing in any of the GBS themes. Laboratory rotations are meant help students become acquainted with the laboratory and the mentor and to gain practical experience in a variety of the techniques and types of scientific questions being addressed within the different theme areas. Laboratory rotations last approximately ten weeks and each student will complete three rotations by the end of their first year. At the end of each rotation the students will present their research in the form of a poster. The performance in the laboratory and the poster presentation will be graded by the mentor of the laboratory and by two GBS faculty members respectively. A passing grade is required for all laboratory rotations. 1-6 hours.

**Non-Dissertation Research.** Laboratory research performed prior to admission to candidacy. 1-12 hours.
Dissertation Research. Prerequisite: Admission to candidacy. 1-12 hours.

CMDB Approved Seminar Series – All CMDB students must attend one of the weekly departmental based seminar series within the scientific interest of the student. The seminar series feature prominent speakers from both inside and outside of UAB and attendance is mandatory. Current approved seminar series include: Cell Biology, Neuroscience, Genetics, and Biochemistry. Additional seminar series may be included upon approval of CMDB and the mentor.

CMDB Journal Clubs - In the beginning of the second year until completion of the thesis defense, all CMDB students must participate in a journal club related to the student’s research interests and to the CMDB theme. The purpose of the journal club is to give students valuable experience in critical assessment of the scientific literature and to keep up-to-date on the research activities emerging from CMDB related research. Current journal clubs associated with the CMDB theme are: Autophagy and Cell Death, Cell Biology, Cell-Matrix Interactions, Cancer and Developmental Biology, and Stem Cell Biology. Additional journal clubs may be included upon approval of CMDB and the mentor.

Genetics, Genomics and Bioinformatics Graduate Program (GGB)

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Director: Daniel C. Bullard, Ph.D.
Phone: (205) 934-7768
E-mail: dcbullard@uab.edu
Web site: www.uab.edu/ggs

Theme Information

Objectives

The main goal of the Genetics, Genomics and Bioinformatics Graduate Program (GGB) is to provide students with an outstanding, flexible, didactic training experience to prepare them for independent and innovative careers in research. The Program emphasizes a broad approach to the fundamental principles of genetics and genomics, and offers a large pool of mentors with expertise in a wide variety of areas. The GGB offers close day-to-day interactions between students and faculty, both in the classroom and the laboratory.

The research interests of our program faculty span the fields of genetics, genomics, cancer, biochemistry, cell biology, and developmental biology. Modern molecular approaches are used to study gene structure, expression, and function in diverse experimental systems including humans, mice, Drosophila, C. elegans, and other organisms such as bacteria. The GGS is also designed to permit close collaborations during the Ph.D. training period between graduate students, postdoctoral fellows, and faculty, while also encouraging full participation in the larger community of biological scientists at UAB.

Admission Requirements

Students are admitted into UAB Graduate Biomedical Sciences (GBS) umbrella program and indicate a theme preference. Applicants to the UAB Graduate School are reviewed by the GBS Admissions Committee and will be evaluated on the basis of their undergraduate performance (both the curriculum and grade point average), letters of recommendation, GRE scores, a personal statement of research interests, performance in other graduate programs or research activities and, if possible, a personal interview. Although students select a theme on admission into the GBS program, they may change theme affiliation at anytime; however changes that occur late in the doctoral program may require additional fundamental course work related to the specific theme. Acceptance into GGB requires a bachelor’s degree including undergraduate coursework in calculus, general chemistry, organic chemistry, and at least one introductory course in zoology or biology by the time of entrance. Doctoral students will receive financial aid in the form of a stipend/fellowship plus full payment of tuition, fees, and their insurance premium. Current stipend/fellowships are $29,000 per year for 2015-2016 entering students. Our entering students also receive a one-time relocation payment of $1,500.

The GGB theme invites applications from individuals committed to obtaining a graduate education in fields related to genetics, genomics and bioinformatics. We recommend that applicants take prior courses covering basic concepts in genetics and biochemistry if possible; however, this is not required for admission. Applications are strongly encouraged from individuals with previous research experience, a master’s degree in related area, or a professional degree such as the M.D. or D.V.M. Once accepted into GBS, students must complete the GBS core curriculum and three scientific research rotations in GBS laboratories. GGB students will then begin course work in areas related to his/her research interests and training needs determined through the advice of faculty mentors and staff.

Overview of the GGB Program

The GGB theme is comprised of over 90 primary and secondary faculty members with appointments in many of the academic departments and Centers at UAB including Genetics, Cell, Developmental and Integrative Biology, Microbiology, Biochemistry, Neurobiology, Medicine, Pathology, Epidemiology, Biostatistics, Nutrition Sciences, Vision Sciences and others. The scientific interests of the faculty are very diverse and interdisciplinary in nature. As such, the GGB theme can provide students an individually tailored, comprehensive training program in genetics and genomics through use of modern tools and approaches in a wide range of model organisms. The research conducted by GGB faculty addresses fundamental cellular and molecular questions that provide the basis for understanding and treating human disease.

In the first semester, all students accepted into the GBS program will complete a 14-week core course covering fundamentals in biochemistry, metabolism, genetics, molecular and cellular biology. After completion of the core GBS curriculum, GGB students will then take the Principles of Genetics course that will cover Mendelian and nonmendelian inheritance mechanisms, cytogenetics and chromosome disorders, and basic epigenetic concepts. Students are also expected to attend a weekly journal club and seminar series, such as those offered by the Department of Genetics, during all years of their graduate training. These weekly events generally start in September and run through May of each academic year.

In addition, starting early in the first semester each student will obtain research experience through three laboratory rotations that will be completed by the end of the first year. Laboratory rotations are for ten weeks and are an integral part of the first year curriculum. They are highly structured and allow the student to become acquainted with the laboratory and the mentor, gain practical experience in a variety of the
techniques, and to learn about the different scientific questions being investigated within the GGB theme. At the end of each rotation, the students will present their research in the form of a poster presentation that is open to the GBS community. After completion of all three rotations, students choose a mentor and laboratory for their dissertation research.

In the second semester, GGB students will complete a series of one month modules that cover a wide variety of subjects including genome structure and function, linkage and association analyses, bioinformatics, and model systems for genetic analyses. In the summer of the first year, all GGB students must complete course in Biostatistics and Bioethics and conduct non-dissertation research in their selected laboratories.

During the subsequent years of the program, GGB students will focus on their laboratory research, as well as take a small number of specialized courses related to genetics and genomic sciences, or their specific areas of investigation. At the end of the second year of graduate training, students will assemble a thesis committee in consultation with their mentors. This committee will contain 4-6 faculty members, 3 of which should be faculty associated with the GGB theme. By the midpoint of the third year, GGB students must complete their qualifying examination consisting of a written dissertation research proposal in the format of an NIH style grant and an oral defense. The examination will evaluate whether the student has gained a sufficiently broad knowledge necessary for successful academic research. To help in this process, the third year fall curriculum will include a course in scientific writing and grantsmanship with a mock NIH grant review session. After successful completion of the exam the proposal will be submitted to a funding agency (if applicable) for possible support. After passing the qualifying exam and the necessary advanced coursework, GGB students are accepted to candidacy for the Ph.D. degree.

The curriculum of each Ph.D. candidate usually requires five years of training and is individually tailored to the interests and needs of the student by the advisor and a graduate committee chosen by the student. The Ph.D. degree is awarded upon successful defense of your dissertation, which includes an oral presentation of original, creative scientific investigations, and a written dissertation which is expected to include published manuscripts or manuscripts in preparation. The pursuit of the Ph.D. degree is a full-time activity, therefore all graduate students are supported by monetary stipends and do not have any required teaching duties. The level of activity required does not permit outside jobs or excessive extracurricular activities. Continuous registration and satisfactory academic standing during all terms is required.

**Genetics, Genomics and Bioinformatics Sciences Theme Faculty**

The faculty listing for the Genetics, Genomics and Bioinformatics theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=GGS

**Additional Information**

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**Course Descriptions for Genetics, Genomics and Bioinformatics**

**Required Courses**

**GBS 720: Genomic Structure & Function.** This course will cover a wide variety of topics related to this topic, including genetic variation and polymorphisms, alternative splicing, microRNAs, and novel sequencing and microarray technologies.

**GBS 722: Bioinformatics.** This course will cover a wide variety of different bioinformatics applications, which will be taught through use of available on-line bioinformatics resources. The topics covered will include: introductions to large-scale, generic databases at NCBI, European Bioinformatics Institute, SwissProt, PDB, UniProt and Ensembl; Sequence analysis systems such as BLAST, ORFFinder and GENSCAN, Multiple Sequence Analysis, gene identification in DNA and an introduction to the Human Genome Project; resources that are used in Microarray Data Analysis; Protein sequence analysis using Pfam, Prosite, Prints. Blocks, Protein structure analysis using SCOP, CATH: structural bioinformatics, secondary structure calculation, homology modeling, structure prediction, protein folding, protein-ligand docking and molecular dynamics.

**GBS 723 : Model Systems for Genetic Analysis.** The course will provide students with an in-depth knowledge of the different animal models used for analyses of gene function and genetic pathways. Topics include transgenic and knockout mouse technologies and strategies, large scale genetic screens in C. elegans and Drosophila, and modeling human genetic diseases in zebrafish.

**GBS 724: Principles of Genetics.** This course will address the basic principles of epigenetics and its involvement in many different biological/pathological processes. Epigenetic regulation refers to mechanisms that regulate gene expression without altering DNA sequences. Elucidation of epigenetic regulatory mechanisms has received great attention in the post genomic era. Topics include imprinting, X-inactivation, epigenetic mechanisms of gene regulation, and cancer epigenetics.

**GBS 725 : Grant Proposal Writing.** The objective of the course is to teach students how to effectively write grant proposals. This course will provide hands on training in the preparation of a grant application

**Number of Evaluation Forms**

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For detailed information, contact:

**Nan Travis**

GGB Theme Administrator II

UAB, Graduate Biomedical Sciences Office

Telephone: (205) 934-1033

Fax: (205) 996-6749

E-mail: ntravis@uab.edu

Or

Daniel C. Bullard, Ph.D.

GGB Theme Director

Department of Genetics

Telephone: (205) 934-7768

Fax: (205) 975-4416

E-mail: dcbullard@uab.edu
and demonstrate effective strategies for assembling a successful proposal. With guidance from the faculty, the students will write a NIH style proposal on their dissertation research topic. After the proposal is complete, each grant will be reviewed in a mock NIH study section. Based on the comments from the study section, the student will revise the application and submit the proposal to his/her thesis committee as part of the qualifying examination for admittance into candidacy.

**Elective Courses (Can be taken for advanced course credit)**

**GBS 726 : Advanced Medical Genetics.** This course will focus on the medical application of advances in genetics and genomics. Topics include chromosome structure and function and major types of chromosomal abnormalities, cancer genetics and cytogenetics, inborn errors of metabolism, current strategies for detection of mutations associated with genetic disorders, genetic risk assessment and population genetics, and genomic approaches to diagnosis and risk stratification.

**GBS 727: Advanced Human Genomics.** This course will cover the conceptual basis, major discoveries, and unsolved problems in human genomics, with an emphasis on disease applications. The goal is to make students conversant with the structures, functions, and natural histories of human genomes, the computational and experimental methods used to establish that knowledge, the applications of genomics to medical research, and the broader impacts of genomic research on the community. Each topic will be covered by an approximately 90-minute lecture from a subject-specific PI coupled to reading of pieces of primary literature. Students will also participate in 3 student-led journal clubs in which one or more papers are discussed in detail with the help of the teaching faculty. We will also perform 3 interactive sessions to teach basic computational skills in Unix, Perl and R. Grading will be determined by: discussion interaction, computational problem sets due in weeks 4, 6, and 8, and a project in which students perform a small but cohesive set of bioinformatic analyses to address a question of their choosing, subject to approval/discussion with the teaching faculty. Format: Each of the 7 weeks will include two, 90 minute lectures performed at UAB. In weeks 2, 4, and 6, we will convene at HudsonAlpha for four-hour sessions. Each four-hour session will include ~1 hour of paper discussion, ~1 hour of teaching on a relevant computational topic, and ~2 hours of hands-on interactive data manipulation with commonly used data types and computational tools. Course meets both on UAB Campus and at HudsonAlpha in Huntsville.

**GBS 746: Epigenetics.** Epigenetic regulation refers to mechanisms that control gene expression without altering DNA sequences. Elucidation of epigenetic regulatory mechanisms has received great attention in the post-genomic era. This course will address the basic principles of epigenetics and its involvement in many different biological/pathological processes.

**Systems Biology.** Lectures will consider systems biology approaches in the context of the human genome project, and with an emphasis on simple model systems. Technologies, biological concepts, and the underlying motivation for this emerging area will be discussed using examples available in the literature. The central focus of systems biology is to acquire a more global and quantitative understanding of how living organisms function as complex genetic systems, and how this might provide a more complete understanding of phenotypic traits.

**Other GGB Educational Activities**

**Department of Genetics Seminar.** The Department of Genetics Seminar series meets once a week from September through May of each academic year. This is a forum in which invited speakers from other institutions, as well as UAB faculty members, postdoctoral fellows, and advanced graduate students present and discuss their research.

**Genetics, Genomics and Bioinformatics Journal Club.** Faculty, students, and postdoctoral fellows meet once a week and present papers on a wide variety of topics related to genetics and genomics.

**Immunology Theme**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**Director:** Dr. Louis B. Justement  
**Phone:** (205) 934-1429  
**E-mail:** lbjust@uab.edu  
**Web site:** www.uab.edu/gbs/immunology/

**Theme Information**

**Objectives**

The Immunology Graduate Theme is a part of the UAB Graduate Biomedical Sciences Program. We are an interdisciplinary program emphasizing the study of multiple aspects of the immune system, from basic molecular mechanisms to whole animal studies and human translational research. The remarkable breadth of our program can be seen in the primary departments of the almost fifty theme faculty members. Faculty from the Departments of Microbiology, Cell Biology, Biochemistry and Molecular Genetics, Genetics, Biology, Pathology, Medicine, Pediatrics, Environmental Health Sciences, Epidemiology, Surgery, Ophthalmology, Dermatology, and Dentistry are involved in internationally recognized research and in the training of PhD-level graduate students and postdoctoral fellows. Currently, forty-five students are in training in the laboratories of our immunology faculty. Primary areas of research include: Allergy, Autoimmunity, Cancer Immunology, Clinical/Translational, Developmental Immunology, Host Defense, Immunodeficiency, Immunogenetics, Inflammation, Mucosal Immunology, Neuroimmunology, Structural Immunology, and Transplantation Immunology. Students obtaining a PhD in the Immunology Graduate Theme will be well-versed in modern immunology and have the option to pursue diverse career pathways.

**Admission Requirements**

Acceptance is based on undergraduate record (curriculum and grade point average [GPA]), Graduate Record Exam (GRE) scores, letters of recommendation, a personal statement of research and career interests, and past research activities. Domestic candidates who pass the first round of selection will be invited to visit UAB and meet the Immunology faculty and students.

The general requirements for acceptance into the Theme are:

- Minimum GPA of 3.0 on a 4.0 scale
- Combined verbal/quantitative GRE score #1100. New GRE scores should be at least 50% or better on each verbal/quantitative.
- A strong background in biology, chemistry, and/or mathematics.

Undergraduate level courses in immunology, cell biology,
biochemistry, physics, genetics, organic and analytical chemistry are strongly encouraged. Undergraduate mathematics through calculus is also recommended. International students must submit scores from the Test of English as a Foreign Language (TOEFL) earned within the last two years. Applicants with scores of 600 (paper-based), 250 (computer-based), or 100 (internet-based) or higher will be considered.

All students in the program receive a stipend (currently $29,000), tuition and fees. Support is provided by the Theme, by the student’s mentor, or through one of many fellowship programs.

Overview of the Theme
The Theme emphasizes interdisciplinary training in all areas of modern immunology. The first year of the program involves fundamental coursework and three research-based rotations in laboratories of the student’s choosing. A qualifying examination and admission to candidacy take place in the second to third year. Advanced coursework, journals clubs, and dissertation research occur in the second and subsequent years. It is expected that completion of the PhD will require five to six years. To broaden their training experience, students are introduced to research at the national and international levels through seminars presented by outside speakers and by attendance at national and international scientific meetings. Students take an active role in inviting and hosting speakers at UAB, and they are strongly encouraged to present their own results at outside meetings.

Immunology Theme Faculty
The faculty listing for the Immunology theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=IM

Additional Information
Deadline for Entry Term(s): Consult Theme Director for information
Deadline for All Application Materials to be in the Graduate School Office: Please refer to theme website to verify deadline dates: http://www.uab.edu/gbs/immunology
Number of Evaluation Forms Required: Three
Entrance Tests: GRE

For detailed information, contact Dr. Louis B. Justement, Theme Director, UAB Immunology Graduate

Theme, SHEL 406, 1825 University Blvd., Birmingham, Alabama 35294-2182.

Telephone (205)934-1429
Fax (205) 996-6749
E-mail lbjust@uab.edu

Course Descriptions
Core Curriculum

**BLOCK 1 - BIOCHEMISTRY/METABOLISM**
- Amino acids and primary protein structure
- Protein secondary and tertiary structure
- Postranslational modifications and allosteric changes
- Glycobiology
- Lipid structure and metabolism
- Thermodynamic principles of biochemical reactions
- Enzyme kinetics
- Enzyme mechanisms and regulation
- Amino acid/nitrogen metabolism
- Glycolysis, gluconeogenesis and citric acid cycle
- Glycogenesis, glycogenolysis and pentose phosphate pathway
- Electron transport/oxidative phosphorylation

**BLOCK 2 - GENETICS/MOLECULAR BIOLOGY**
- DNA recombination
- Nucleic acids & DNA replication
- Prokaryotic transcription
- Prokaryotic translation
- Prokaryotic gene regulation
- Eukaryotic genome organization
- Eukaryotic DNA replication
- Eukaryotic transcription
- Eukaryotic translation
- Eukaryotic gene regulation I
- Eukaryotic gene regulation II
- Mendelian inheritance
- Genetic variation and polymorphisms

**BLOCK 3 - BIOLOGICAL ORGANIZATION**
- Integrated systems: From organelles to organs
- Membrane structure/function
- Cytoskeleton
- Secretion
- Endocytosis, lysosomal targeting, protein degradation
- Biochemistry of signal transduction
- Cell cycle
- Cell-cell junctions and polarity
- ECM and ECM-cell interactions
- Cell motility
- Apoptosis
- Discipline of pharmacology
- Pharmacokinetics

Theme Specific Courses
**Introductory Immunology.** Introductory Immunology is a team-taught survey course that covers basic concepts of innate and adaptive immunity. These integrated series of lectures provide a firm foundation in immunology, especially for those with minimal immunology background, and serve as an important refresher for the developing immunologist. Students actively participate in the course through weekly presentations of selected immunology topics based on the current literature.

**Lymphocyte Biology.** The objective of this class is to provide first year immunology students with the opportunity to gain a more in-depth understanding of selected aspects of lymphocyte biology. Possible topics include T cell subsets, B cell biology, lymphocyte activation, and
transplantation immunology. The course is literature intense and students are required to read and present numerous scientific papers.

**Dendritic Cell Biology.** Understanding the biology and function of the immune system's professional antigen presenting cells, the dendritic cells, is a fast moving challenge. The course will cover the seminal papers in the field that have laid the groundwork for our current understanding of this group of complex cells. The major component of the class will emphasize student presentations of assigned reviews and journal articles. Presentations will include an overview (provided by the review article) and 2-3 papers per class.

**History of Immunology.** This course will examine the concepts that have shaped what we now consider pillars in our knowledge of the immune system. The course will cover the major events and discoveries that led to these established concepts and, where possible, the advent of technologies that facilitated these advances. The course will involve student participation in the form of presentations in selected areas as well as lectures by some individuals who were part of this history.

**Neuroimmunology.** The purpose of this course is threefold;
1. To provide students with a basic overview of immunology and neuroscience in conjunction with a specific focus on how neuroinflammatory processes affect the brain
2. To teach students basic neuroanatomy of the brain
3. To have students understand the clinical implications of neuroinflammatory diseases by attending rounds with clinicians.

How the immune system influences the brain is an emerging field in neuroscience research and is currently not being addressed in a graduate or medical course.

**Innate Immunity.** The study of innate immunity has made a resurgence in recent years and its critical role, not only in host defense against invading pathogens, but in the development of adaptive immune responses is now appreciated. This course will provide an in-depth look at selected aspects of the innate immune response including the cellular and molecular components critical to its development. The course will involve student presentations on selected topics.

**Mucosal Immunology.** The mucosal immune system is essentially the primary site of interaction between invading pathogens and the immune system. Mucosal immunity has always been a strength of the immunology community at UAB and is rarely covered at most other institutions. This class will provide in-depth analysis of the structural features that distinguish the mucosal immune system from the peripheral immune system. Features of innate and adaptive immunity as they relate to mucosal immune responses will also be covered. The course will involve student presentations on selected topics.

**Journal Clubs**
- MIC 797-00: Cellular and Molecular Immunology Journal Club
- MIC 796-00: Neuroimmunology Journal Club
- MIC 737-VT: Mucosal Immunology Journal Club
- MIC 772-VT: Bacterial Pathogenesis Journal Club
- MIC 724-VT: Virology Journal Club
- MIC 785-00: Post-Transcriptional Regulatory Mechanisms
- MIC 786-00: Retrovirology Journal Club
- MIC 789-00: Journal Club in Biological Crystallography
- MIC 760: Autoimmunity Journal Club
- MIC 701-00: Inflammation Journal Club

**Microbiology**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**Degree Offered:** Ph.D.
**Director:** Dr. Janet Yother
**Phone:** (205) 934-9531
**E-mail:** jyother@uab.edu
**Web site:** www.uab.edu/micro

### Theme Information

**Objectives**

The Microbiology Graduate Program is a part of the UAB Graduate Biomedical Sciences Program. We are an interdisciplinary program emphasizing the study of bacteria, viruses, fungi, and parasites. Over 40 faculty members from the Departments of Microbiology, Cell Biology, Biochemistry and Molecular Genetics, Genetics, Pathology, Medicine, Pediatrics, and Dentistry are involved in internationally renowned research and the training of Ph.D.-level graduate students. Currently, more than 70 students are in training in the laboratories of our faculty. Primary areas of research interest include the genetics, physiology, and molecular biology of microbes and how microbial pathogens cause disease. Basic cellular processes, host-pathogen interactions, and the design of innovative strategies for the prevention and treatment of infectious diseases are under study in the laboratories of our faculty. Students graduating from the Program are well-versed in modern microbiology and have the experience to pursue a diversity of career opportunities.

**Admission Requirements**

Acceptance is based on undergraduate record (curriculum and grade point average [GPA]), Graduate Record Exam (GRE) scores, letters of recommendation, a personal statement of research and career interests, and past research activities. Domestic candidates who pass the first round of selection will be invited to visit UAB and meet the Immunology faculty and students.

The general requirements for acceptance into the Theme are:

- Minimum GPA of 3.0 on a 4.0 scale
- Combined verbal/quantitative GRE score #1100. New GRE scores should be at least 50% or more on each verbal/quantitative.
- A strong background in biology, chemistry, and/or mathematics. Undergraduate level courses in immunology, cell biology, biochemistry, physics, genetics, organic and analytical chemistry are strongly encouraged. Undergraduate mathematics through calculus is also recommended. International students must submit scores from the Test of English as a Foreign Language (TOEFL) earned within the last two years. Applicants with scores of 600 (paper-based), 250 (computer-based), or 100 (internet-based) or higher will be considered.

All students in the program receive a stipend (currently $29,000), tuition and fees. Support is provided by the Theme, by the student's mentor, or through one of many fellowship programs.
Overview of the Program
The program emphasizes interdisciplinary training in all areas of modern microbiology. The first year of the program involves fundamental coursework and three research-based rotations in laboratories of the student's choosing. A qualifying examination is held in the second year. Advanced coursework, journals clubs, and dissertation research occur in the second and subsequent years. It is expected that completion of the program will require five to six years.

To broaden their research experience, students are introduced to research at the national and international levels through seminars presented by outside speakers and by attendance at national and international scientific meetings. Students take an active role in inviting and hosting speakers at UAB, and they are strongly encouraged to present their own results at outside meetings. An annual retreat held off-campus allows students to present their research and fosters collegiality between students, postdoctoral fellows, and faculty.

Microbiology Theme Faculty
The faculty listing for the Microbiology theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=MB

Additional Information
Deadline for Entry Term(s): Consult Program Director for information
Deadline for All Application Materials to be in the Graduate School Office: Refer to theme website for deadline information: http://www.uab.edu/micro
Number of Evaluation Forms Required: Three
Entrance Tests: GRE

For detailed information, contact Dr. Janet Yother, Program Director, UAB Microbiology Graduate Theme, University of Alabama at Birmingham, BBRB 661, Birmingham, Alabama 35294-2170.
Telephone (205)934-9531
Fax (205)996-6749
E-mail jyother@uab.edu
Web www.uab.edu/micro

Course Descriptions
Microbiology Theme
Graduate Biomedical Sciences Core Curriculum
Block 1 - Biochemistry/Metabolism
• Amino acids and primary protein structure
• Protein secondary and tertiary structure
• Post-translational modifications and allosteric changes
• Glycobiology
• Lipid structure and metabolism
• Thermodynamic principles of biochemical reactions
• Enzyme kinetics
• Enzyme mechanisms and regulation
• Amino acid/nitrogen metabolism
• Glycolysis, gluconeogenesis and citric acid cycle
• Glycogenesis, glycogenolysis and pentose phosphate pathway
• Electron transport/oxidative phosphorylation

Block 2 - Genetics/Molecular Biology
• DNA recombination
• Nucleic acids & DNA replication
• Prokaryotic transcription
• Prokaryotic translation
• Prokaryotic gene regulation
• Eukaryotic genome organization
• Eukaryotic DNA replication
• Eukaryotic transcription
• Eukaryotic translation
• Eukaryotic gene regulation I
• Eukaryotic gene regulation II
• Mendelian inheritance
• Genetic variation and polymorphisms

Block 3 - Biological Organization
• Integrated systems: From organelles to organs
• Membrane structure/function
• Cytoskeleton
• Secretion
• Endocytosis, lysosomal targeting, protein degradation
• Biochemistry of signal transduction
• Cell cycle
• Cell-cell junctions and polarity
• ECM and ECM-cell interactions
• Cell motility
• Apoptosis
• Discipline of pharmacology
• Pharmacokinetics

Neuroscience Theme
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Co-Directors: Dr. Scott Wilson, Dr. Tara Desilva
Phone: (205) 975-5573
E-mail: neuroscience@uab.edu
Web site: http://www.neuroscience.uab.edu

Theme Information
The UAB Neuroscience Graduate Theme is a portal into the comprehensive neuroscience research opportunities at UAB. Students entering the Neuroscience Graduate Theme will find a home and anchor for their entire graduate experience. Throughout a student's entire Ph.D. career, the faculty and staff of the Neuroscience Graduate Program provide continued support, encouragement, and guidelines for success. The theme-based UAB Neuroscience Graduate Program seeks to equip and train students to become tomorrow's innovative neuroscientists by
• Teaching basic neuroscience ideas that become stepping stones to more in-depth research
• Providing unique professional and scientific avenues through which they can develop their presentation skills, learn critical thinking and how to design experiments
• Offering students the opportunity to choose neuroscience research from a multitude of options available through labs all over campus, not limiting students to a department but, rather, a discipline
• Providing opportunities for informal interaction with other students to discuss research, scientific writing, as well as a social network of peers to assist students in staying grounded. Students enter the neuroscience theme either through direct admission into the program or after their first year when moving into the permanent lab of a neuroscience mentor. Neuroscience theme students follow the neuroscience curriculum and do not join a departmental graduate program nor follow a departmental graduate program curriculum. The student becomes affiliated with the department in which the mentor holds his/her primary appointment for the purpose of the awarding of the degree.

Departments affiliated with the Neuroscience Theme include:
• Neurobiology
• Cell, Developmental & Integrative Biology
• Neurology
• Psychiatry
• Pediatrics
• Pathology
• Vision Sciences

ADMISSION TO THE PROGRAM
Admission to our program is highly competitive. We generally admit only 6-7 students each year. Students admitted to our students meet and usually exceed general requirements of:
• 3.0 or above undergraduate GPA
• GRE scores of 550 or better on each section for a minimum composite score of 1100 / > 300 on the newest scoring system
• Strong background in biology, chemistry and/or mathematics
• Research experience, minimum 6 months bench research
• TOEFL (for international students) of greater than 500 on paper-based test and greater than 173 on computer-based test

Only online application materials will be accepted.

Required Application Materials
Domestic students: (No application fee)
• Application and personal statement
• Official transcripts from all undergraduate institutions attended
• Official GRE scores (Institutional code 1856)
• 3 letters of recommendation

International students: ($60 application fee)
• Application and personal statement
• Official transcripts from all undergraduate institutions attended
• Official GRE scores (Institutional code 1856)
• Official TOEFL scores
• 3 letters of recommendation

All students accepted into the program receive
• Free tuition
• Free health insurance
• $29,000/year stipend (current for 2015-2016)

CURRICULUM
All first year students follow the same curriculum, designed to provide them with the foundations they will need as they move into permanent labs and begin their own research projects. Students begin their year attending the Intro to Neurobiology course at the Dauphin Island Sea Lab on Dauphin Island, Alabama, on the Gulf of Mexico. While there, the student is exposed to a variety of learning opportunities, including lectures, hands-on experiments, and going out into the Gulf to “fish” for marine life. Students live at Dauphin Island, dorm style, for 2 1/2 weeks in late summer, working hard with UAB faculty and teaching assistants and playing hard during their downtime. This course provides a very unique opportunity for neuroscience students.

Overview of General Requirements --
• Students are required to successfully complete 2 electives prior to their last semester.
• Registration for the Student Summer Seminar Series is required for each student each summer semester. Participation includes attendance, completion of an evaluation form for each speaker, and the presentation of a 20 minute PowerPoint talk and 10 minute Q-A session. Students will present once each summer. First year students are excluded from presenting.
• Students must register for and attend a seminar series of their choosing (with advice from their mentor) each semester until graduation.
• A biostatistics course is required - BY 755, and is taken during the spring semester.
• All students must successfully complete an ethics course. This is taken during the fall semester of the student’s 2nd year (GRD 717).
• Students must register for a journal club of their choosing (with advice from their mentor) each fall and spring semester until graduation.
• Two first-authored papers accepted to an appropriate journal are required unless the student’s committee recommends/approves differently.
• Students must be registered for a minimum of 9 hours during the Fall semester, 9 hours during the Spring semester, and 9 hours during the Summer semester each year.
• 18 credit hours of dissertation research are required before graduation. This means you must have a minimum of two semesters between the semester of your Qualifying Exam and your final defense semester.
• You must be registered for at least 3 credit hours during the semester in which you plan to graduate, unless told otherwise.

Neuroscience Theme Faculty
The faculty listing for the Neuroscience theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=NGP
The Pathobiology & Molecular Medicine (PBMM) Graduate Program at UAB is the successor of the popular and highly successful Integrative Biomedical Sciences Graduate Program established in 1999. PBMM represents an expansion of the Integrative Biomedical Sciences Program and is designed to give students the very best multidisciplinary training within the emerging and exciting field of molecular medicine. The main objective of the program is to expose students to a diverse faculty with research interests that range from molecules - to whole organisms - to disease processes - to new therapies. Our premise is that students, when trained in basic principles of molecular and cellular biology, in addition to organ-based physiology, pharmacology and pathology, will be prepared to study biological processes at any level of organization. The important biomedical issues of today are sufficiently complex that the successful investigator must be able to tackle these issues using integrated, multifaceted approaches.

Additional Information

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<td>Entrance Tests</td>
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</tr>
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For detailed information, contact:

Patricia Matthews
Program Manager
UB Neuroscience Graduate Theme
SHEL 120D / 1825 University Boulevard
Birmingham, AL 35294-2182
Tel: 205.934.7034
Fax: 205.996.6749
Email: pm1@uab.edu

Pathobiology and Molecular Medicine Theme

Degree Offered: Ph.D.
Directors: Dr. Michelle V. Fanucchi and Dr. Rakesh P. Patel
Program Manager: Kristin Boggs
Phone: (205) 934-7810
E-mail: pbmm@uab.edu
Web site: http://www.uab.edu/pbmm

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Theme Information and Course Requirements

The Pathobiology & Molecular Medicine (PBMM) Graduate Program at UAB is the successor of the popular and highly successful Integrative Biomedical Sciences Graduate Program established in 1999. PBMM represents an expansion of the Integrative Biomedical Sciences Program and is designed to give students the very best multidisciplinary training within the emerging and exciting field of molecular medicine. The main objective of the program is to expose students to a diverse faculty with research interests that range from molecules - to whole organisms - to disease processes - to new therapies. Our premise is that students, when trained in basic principles of molecular and cellular biology, in addition to organ-based physiology, pharmacology and pathology, will be prepared to study biological processes at any level of organization. The important biomedical issues of today are sufficiently complex that the successful investigator must be able to tackle these issues using integrated, multifaceted approaches.

During your first year, you will complete a series of rigorous courses that includes training in biochemistry, molecular biology, genetics, cellular physiology and pathobiology. Due to the interdisciplinary nature of Graduate Biomedical Sciences, students have the option to select their advanced, elective courses from courses numbered at the 700-level and above in participating departments. Those include courses within the School of Medicine, School of Public Health, and other Joint Health Sciences. Courses should be chosen in consultation with the student’s mentor and committee to ensure coursework supports his/her research. You will also have the opportunity to take courses within designated “Focus Areas.” These Focus Areas are organized around specific research strengths represented by faculty within the PBMM and address important issues in diseases such as diabetes, heart disease and cancer among others. In addition, you will have full access to courses offered by other programs within the GBS where strengths exist in multiple fields including immunology, neuroscience, structural biology and others. There will also be ample time allotted for you to attend research seminars, learn to make scientific presentations and to perform 3 laboratory rotations. These rotations are designed to give the student a practical introduction to bench research and to help the student choose a faculty mentor. After the first year there will be additional coursework directed in your area of interest, but the main focus will be on intensive research training within the laboratory. Here, guided by your mentor and graduate advisory committee, you will develop critical technical and analytical skills that will form the basis of your dissertation research.

Graduates of the PBMM training program are fully prepared to address the most complex and challenging issues in disease biology and therapy and are positioned to pursue work in academic, industrial or government research or related positions. Training for the PhD degree is generally completed within four to six years, depending on the student’s background and training goals.

Admission Requirements

Undergraduate Education

A baccalaureate degree in the natural or physical sciences is required. Undergraduate level courses in organic and analytical chemistry, cell biology, biochemistry and genetics are strongly encouraged. Undergraduate mathematics through calculus and physics are also recommended.

Grades & Scores

The Graduate School recommends that entering students have a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a minimum combined verbal/quantitative score on the Graduate Record Exam (GRE) of 300 (new test) or 1100 (old test).

International students must submit scores from the Test of English as a Foreign Language (TOEFL) earned within the last two years. Applicants with scores of 600 (paper-based) or 80 (internet-based) or higher will be considered.
Research
Most students admitted to the program have undergraduate or postgraduate research experience.

Application Review
Applications are reviewed by the GBS Admissions Committee, representing all GBS thematic programs.

Acceptance will be based on a combination of factors including:
- Undergraduate performance (both the curriculum and grade point average)
- Letters of recommendation
- GRE scores
- A personal statement of research and career interests
- Previous research experience
- Personal interview, at program expense (international applicants may be interviewed by phone or video conference) Admission to our Programs is very competitive and the number of positions is limited; thus not every qualified applicant can be offered a position.

Academic Program

Year 1

Courses
Integrative, science-based teaching is the foundation of every PBMM course. You will learn from a team of faculty that will contribute their expertise in the basic biology and physiology of each topic coupled with an emphasis on understanding relevant diseases, clinical correlates, and therapeutic approaches. The lectures also emphasize the scientific techniques and experimental approaches that are essential to the concepts being discussed. In addition, many instructors assign journal readings and independent projects, which may include Web-based searches or literature reviews, to actively engage you in the learning process.

- First year students in all Graduate Biomedical Sciences Themes take a common 12-week core curriculum emphasizing the fundamentals of biochemistry, genetics, and cell biology. This coursework will include an overview of the principles of biochemistry, metabolism, molecular biology, genetics and biological organization. This will be followed by an integrated course in experimental medicine that focuses on mechanisms that drive specific diseases and exposes students to approaches being taken by UAB scientists who are addressing disease-based problems. Additional coursework in the first year will include integrative physiology, pathophysiology, endocrinology, immunology, pharmacology and molecular medicine.
- Journal Club

You will present relevant published research papers to help hone your presentation skills and to teach you to learn to think like a scientist.

- Seminar Series
Faculty from participating departments, other UAB faculty, and faculty from other institutions discuss their latest research.
- Lab Rotations (3 rotations of 10 weeks each)
Based on your specific interests, you will choose from a wide range of research laboratories available to you. This "hands on" research experience will provide you with the background to decide on a laboratory and mentor to guide you through your dissertation research.

Second year and beyond - Qualifying examination, courses, journal clubs, research, completion of degree.

Qualifying examination. Students must pass a Qualifying Examination that assesses their general knowledge, ability to read the literature, and ability to formulate and defend testable hypotheses. The examination involves a written proposal and oral defense of the proposal.

Journal Clubs. From the second year until completion of the program, students participate in a Journal Club related to their specific area of interest. The purpose of the journal club is to enhance the ability to critically read the literature and to stay abreast of current findings in the field.

Pathobiology and Molecular Medicine courses. Advanced courses in areas relevant to the student's area of interest are required and may be completed anytime from the second year on. Students are encouraged to take these courses as early as possible in order to achieve the most benefit in their training.

Dissertation research. After completion of the Qualifying Examination, and no later than the third year, the student forms a dissertation committee comprised of five faculty members (including the mentor) whose expertise will be beneficial in helping direct the research and course of study.

Awards of the PhD degree. The PhD is awarded upon completion of the academic requirements and defense of the dissertation. The dissertation consists of a written document that is expected to include published papers or manuscripts in preparation, along with a scholarly introduction and discussion of the work that has been completed. A successful private defense of the dissertation in front of the dissertation committee is then followed by a seminar presentation and public defense of the dissertation as the final step in completion of the PhD degree.

Student Support
All students accepted into PBMM receive a competitive annual stipend and fully paid tuition and fees. Single coverage health insurance is also provided at no cost to the student through VIVA Health UAB. The annual stipend for the 2013-2014 academic year is $26,000. The total annual award value, including stipend, tuition, fees and health insurance is over $37,000. Stipends are reviewed and updated regularly.

First-year students are funded through the PBMM Graduate Program by Graduate School Fellowships and occasionally by other national and University fellowships. In subsequent years, students are supported through their advisor's research grants, institutional funds or training grants. In addition, highly qualified students are encouraged to apply for individual fellowship awards, with the guidance of their advisors. See Fellowships and Awards for additional fellowship information and resources.
Pathobiology and Molecular Medicine Theme Faculty

The faculty listing for the Pathobiology and Molecular Medicine theme is located at http://services.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=PBMM

Additional Information

Deadline for Entry Term(s): Consult Program Director for information
Deadline for All Application Materials to be in the Graduate School Office: Please refer to Theme Website: http://www.uab.edu/pbmm
Letters of Recommendation Required: Three
Entrance Tests (University Code: 1856) GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact:

Theme Director
Michelle V. Fanucchi, Ph.D.
205.934.7230 (office)
fanucchi@uab.edu

Theme Co-Director
Rakesh P. Patel, Ph.D.
205.975.9225 (office)
rakeshp@uab.edu

Kristin Boggs
Theme Manager
Tel: 205.934.7810 (office)
Fax: 205.996.6749
Email: pbmm@uab.edu

School of Dentistry

Dean: Dr. Michael S. Reddy

The School of Dentistry offers degree programs leading to a Master of Science in Dentistry and the DMD/PhD in Dentistry. Advanced clinical specialty training and research, leading to the degree of Master of Science in Dentistry, is offered to meet two areas of need: the preparation of qualified teachers and investigators in the various branches of academic dentistry and the preparation of fully trained dental specialists.

The UAB School of Dentistry DMD/PhD program prepares students for an exciting career in dental academics through an innovative integrated clinician scientist training program. Students in the program are allowed to apply credits earned in both dental and graduate school towards a specialized program earning both a DMD degree and a PhD degree in a biomedical science.

Dentistry (M.S.)

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.
Director, Dentistry: Dr. Amjad Javed
Phone: (205) 996-5124
E-mail: javeda@uab.edu
Web site: www.dental.uab.edu

Program Information

Advanced clinical specialty training and research, leading to the degree of Master of Science in Dentistry, is offered to meet two areas of need: the preparation of qualified teachers and investigators in the various branches of academic dentistry and the preparation of fully trained dental specialists. The program is a combination of the conventional work for the M.S. degree plus the achievement of proficiency in some phase of clinical dentistry. The course of study requires a minimum of two academic years; most students will require three years to complete the work. The applicant must be a graduate of an accredited school of dentistry, or an undergraduate school and must have achieved, in both predental and dental requirements, a superior scholastic record.

At the time of enrollment in the Graduate School, the student is assigned an appropriate faculty advisor, who works with the student in outlining a course of study consistent with objectives. This curriculum must cover the three areas of a selected phase of clinical dentistry, a related basic health science, and research.

Major and Minor

The major field of study must be selected from the following: dental biomaterials, endodontics, general dentistry, hospital dentistry, maxillofacial prosthetics, oral surgery, orthodontics, pediatric dentistry, periodontics, prosthodontics, public health dentistry, or oral biology. The program requires a minimum of 30 graduate credits. Not less than 18 semester hours of credit in the program must be in the major subject, with the minimum acceptable grade being B. A minor must involve at least six semester hours of study in one or two basic health science departments related to the student’s major and research interests.

By the time the student has been in residence one year and has finished some of both major and minor courses, the student and the advisor should recommend to the Graduate School dean at least two additional graduate faculty members, one from outside the student’s specialty area, for appointment to the graduate study committee. The student should discuss with his/her committee plans for the remaining course of study, including a proposed thesis title and outline of experimental design. Depending upon the nature of the research plan, it may be desirable for a different advisor to be appointed, serving either as co-chair or as new chair of the graduate study committee. At this time, demonstration of a reading knowledge related to literature review, competence in research and experimental design, understanding of biostatistics, experience with computer and other techniques may be required, as appropriate to the student’s investigation.

Admission to Candidacy

When the graduate study committee is satisfied that the student is prepared to undertake the research, the student is admitted to candidacy.
for the master's degree. This step should be taken at least two semesters before the anticipated date of completion of the program.

**Research and Thesis**

Sufficient research work to train the candidate in the principles and methods of scientific investigation is required. The research project should involve the student's own intensive work in some area of dentistry, preferably related to the basic health sciences. The thesis is based on the research study and must show the candidate's ability to delineate a problem, logically plan its solution, and present the results of the work in an orderly fashion. Familiarity with the literature of the field is expected.

**Final Examination**

The final oral examination is administered by the student's graduate study committee before the deadline is set by the Graduate School. The examination begins with oral presentation and defense of the thesis and may include any work fundamental thereto. At the close of the examination, the committee votes on the candidate, taking into account all of the work undertaken. Majority approval is required.

**Additional Information**

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<td>Entrance Tests</td>
<td>DDS (TOEFL and TWE also required for international applicants whose native language is not English.)</td>
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</table>

**Contact Information**

For detailed information, contact the graduate program director, Dr. Amjad Javed, University of Alabama School of Dentistry, School of Dentistry Building, SDB 714, 1919 Seventh Avenue South, Birmingham, AL 35294-0007.

Telephone 205-934-5407
Fax 205-934-0208
E-mail javeda@uab.edu
Web www.dental.uab.edu

**Master of Science with Emphasis in Oral Biology**

The School of Dentistry in collaboration with the joint basic science Departments at The University of Alabama offers graduate studies leading to a Master of Science degree with emphasis in Oral Biology. The objective of the program is to relate basic biological sciences to health and disease of the oral cavity. This program is designed for individuals holding a D.D.S., D.M.D., or B.S. in Science (e.g. biology, chemistry etc) with little or no experience in basic research. This program will provide insight into dental academics and teaching in basic or applied research.

Students are required to pursue studies in oral biology and in the basic biological sciences. These studies include course work, seminars, journal club, and a laboratory component. Course work includes formal lectures from within the School of Dentistry and courses offered by the basic sciences departments, School of Public Health and the School of Medicine. The seminars and journal club include the “Dean’s Seminar Series” and the Oral and Skeletal Biology Journal Club and other Research seminars within UAB. The Seminars cover a wide array of topics relevant to various research areas as well as other disciplines of dentistry or dental education. A significant portion of the program is devoted to the design and completion of a thesis research project in the form of one publishable paper in a reputable scientific journal which is a requirement of the program. Thesis research will be carried out under the supervision of a faculty member. Faculty involved in the Master of Science program with emphasis in Oral Biology are actively engaged in research that represents a variety of oral and basic biomedical disciplines within the UAB. The diversity of the research interests offers opportunities for students to pursue studies in a stimulating research environment.

The program requires a minimum of 30 graduate credits. Of these, at least 24 credits must be selected from graduate-level courses approved for the program and a minimum of 6 credits at the master’s research level. Each student must orally defend a master's thesis based on their research. If the applicant holds a D.D.S. or D.M.D. degree, the Master in Science may be combined with a clinical dental specialty training only after acceptance into the clinical program.

**Admission**

Applicants must hold a B.S., D.D.S., or D.M.D., or an equivalent degree and should possess a cumulative grade-point average of at least 3.00 on a 4.00 scale. Standardized test such as GRE or DAT is required for all applicants. Students whose first language is not English must earn a score of 560 or better on the Test of English as a Foreign Language (TOEFL).

Applicants are asked to submit a statement describing past research experience and current research interests, and stating how completion of the Master in Science program fits into their career goals.

For International applicants; transcripts and all related material should be received no later than February 28 to enroll in the fall semester of the same year.

For US applicants; transcripts and all related material should be received no later than March 31 to enroll in the fall semester of the same year.

Financial assistance is not available. Students must show that they can support themselves.

**Contact**

For further information and application materials, contact:

Jannet Katz, DDS, PhD
Professor
Department of Pediatric Dentistry
University of Alabama School of Dentistry
BBRB 713
1720 2nd Avenue South
Birmingham, AL 35294-2170
Telephone: (205) 934-2878
FAX: (205) 934-1426
e-mail: meow@uab.edu
**DMD/PhD Program**

**Degree Offered:** DMD/PhD

**Director:** Dr. Steve Filler

**Phone:** (205) 934-3387

**E-mail:** admissions@cs1.dental.uab.edu

**Web site:** http://dental.uab.edu/students/prospective-students/dmd-phd-program.html

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**DMD/PhD Program**

The UAB School of Dentistry DMD/PhD program prepares students for an exciting career in dental academics through an innovative integrated clinician scientist training program. Applicants interested in the DMD/PhD program must have completed an undergraduate degree program (BA or BS) that fulfills all requirements for both dental school and graduate school admissions.

Interested students need to contact Dr. Steve Filler, Director of Admissions, UAB School of Dentistry at 205.934.3387 or by email at admissions@cs1.dental.uab.edu.

**Important Points:**

1. DMD and PhD degrees will be awarded within the same year upon completion of all dental and graduate school requirements.
2. Duration of the program is 8 years; however students with strong prior research experience have completed the program in 7 years.
3. Students accepted into the DMD/PhD program that do not complete the PhD training program, are required to reapply to the School of Dentistry for admission as a traditional DMD candidate.

**To apply to the program, applicants must:**

1. Contact Dr. Steve Filler at UAB School of Dentistry indicating intent to apply for the DMD/PhD program.
2. Submit a formal application to the UAB School of Dentistry through AADSAS as early as possible.
3. Submit an online application to the UAB Graduate School (http://www.uab.edu/graduate/online-forms) through one of the Biomedical Sciences Interdisciplinary Themes, Engineering (Biomedical or Materials), Public Health, or other graduate program.
4. Have successfully taken the Dental Aptitude Test (DAT).
5. Have completed all the recommended courses for both dental and graduate school admissions.
6. Have prior hands-on-research experience.

**Note:** Separate applications are required to the UAB School of Dentistry and the UAB Graduate School (https://app.applyyourself.com/AYApplicantLogin/I_ApplicantLogin.asp?id=uab-grad). UAB School of Dentistry participates in the American Association of Dental Schools Application Service (AADSAS); Students should initiate AADSAS applications as early as possible.

Applicants under consideration will be requested to file a supplemental DMD/PhD application. Applicants qualified for admission will be invited for a personal interview with the Admissions Committee.

Candidates will be evaluated based on their academic record, DAT scores, research accomplishments, publications, commitment to a research dental academic career, character, and personality traits indicating potential for success in a DMD/PhD program.

**Sequence of the DMD/PhD Program:**

1. Students first enter the Graduate School and complete at least two years of coursework including graduate school qualification examinations and dissertation proposal defense maintaining at least a 3.0 GPA.
2. After research PhD candidacy with approval of the DMD/PhD Advisory Committee the student transitions into the DMD curriculum in lock step with a dental class from years 2-4.
3. DMD and PhD degrees are awarded within the same year upon completion of the degrees programs.

**Financial Support Opportunities:**

Students enrolled in the DMD/PhD training program are eligible for funding through the School of Dentistry’s NIDCR supported T-90 Dental Academic Research Training (DART) Program or an individual NIDCR supported F-30 Training Award. See details about these programs at the following links: DART Program (http://dental.uab.edu/research-training-programs/dart/dental-academic-research-training-program.html) and the NIDCR F-30 grant application (http://grants.nih.gov/grants/guide-paragraphs/PAR-08-119.html)

**School of Education**

**General Information**

UBA offers graduate programs that lead to teacher certification in a variety of K-12 teaching disciplines (Biology, Language Arts, Early Childhood Education, English as a Second Language, Kinesiology/Physical Education etc.), School Counseling, and Instructional Leadership and non-certification programs such as Community Health, Clinical Mental Health Counseling, and Kinesiology with an Exercise Physiology concentration. A complete listing and description of all graduate programs are described in the Department of Curriculum and Instruction and Department of Human Studies sections of the catalog. Most certification programs have both master’s (MAEd) and a post-master’s Education Specialist (Ed.S.) degree. Additionally, the School of Education offers doctoral programs in Early Childhood Education (PhD), Educational Leadership (EdD), Educational Studies in Diverse Populations (PhD), and Health Education/Health Promotion (PhD).

All certification programs in the School of Education are fully approved by the Council for the Accreditation of Educator Preparation (CAEP). All teacher certification programs within the School of Education have been approved by the Alabama State Board of Education (ALSDE). The School Counseling and Clinical Mental Health concentrations have also been accredited by the Council for Accreditation of Counseling & Related Educational Programs (CACREP). The Music program is accredited by the National Association of Schools of Music. The Art program has been accredited by the National Association of Schools of Art and Design.

**Degrees and Certificates**

Degrees are awarded by UAB in recognition of scholastic achievement and may be pursued for their own sake. However, employment in the public schools is governed not by the degree but by the professional certificate issued by the Alabama State Department of Education (ALSDE). Since many students in these programs are preparing for work in the public schools, the pursuit of a degree is usually coupled with
pursuit of ALSDE certification. There is a rough correspondence between degree level and certification class, as follows:

Bachelor's | Master's | Specialist (post-master's) | AA | Doctoral | No Equivalent
--- | --- | --- | --- | --- | ---
Equivalent
Bachelor's | B | Master's | A | Specialist (post-master's) | AA | Doctoral | No Equivalent
Degree offered:
Education, Early Childhood | Ph.D., Ed.D., M.A.Ed.
Education, Elementary | Ed.S., M.A.Ed.
Education, High School and Middle School | Ed.S., M.A.Ed.
Arts Education | M.A.Ed.
Arts Education with a Concentration in Music | M.A.Ed.
English as a Second Language | Ed.S., M.A.Ed.
Reading | M.A.Ed.
Special Education | Ed.S., M.A.Ed.
Teacher Leader | Ed.S.
School Psychometry | M.A.Ed.

Program Contact Information

Program Coordinator Contact Information (Room and Phone Number)
High School and Middle School Education: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357
English as a Second Language: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357
Arts Education: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357
Teacher Leader: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357
Special Education: Dr. Diane Pevsner (emfinger@uab.edu) 124 (205) 975-5481
(Certification) Early Childhood/Elementary Education: Ms. Kathy Scott (%20scottk@uab.edu) 113A (205) 934-8359
(Non-Certification) Early Childhood/Elementary Education: Traditional Masters and Ed.S. Dr. Kay Emfinger (%20emfinger@uab.edu) 100 (205) 934-7003
Reading Education: Dr. Jennifer Summerlin (%20summerl@uab.edu) 110B (205) 996-3540
All Other Programs: Dr. Lynn Kirkland (lkirk@uab.edu) 100 (205) 934-8358

This program is designed to provide students with the coursework and practical experience to become leading researchers and practitioners in Health Education and Health Promotion. Course work includes a core of courses in advanced research and statistical methods, social and behavioral sciences, and the completion of a research internship and dissertation.

For more information regarding the Health Education/Health Promotion program, visit the Health Education/Health Promotion (p. 91) Graduate Catalog page.

Curriculum and Instruction

The University of Alabama at Birmingham
Graduate Programs

The M.A.Ed. and Ed.S. programs emphasize improving the teaching skills of the student and broadening the student’s understanding of the field(s) of teaching specialization. Numerous teaching fields are available. All prospective students must apply for admission through the Graduate School.

The M.A.Ed. program requires a minimum of 30-32 semester hours of study, and the Ed.S. program requires at least an additional 30 semester hours. All programs require a written final examination or comprehensive electronic portfolio and a minimum GPA of 3.25 for master’s degree and 3.50 for the Ed.S. An outline of the specific course requirements can be obtained from the following link: http://www.uab.edu/education/studentservices/general-information/checklists. Admission requirements are located at the following link: https://www.uab.edu/education/studentservices/admission-requirements.

The M.A.Ed. programs satisfy the academic requirements for the Alabama State Department of Education Class A Professional Certificate and an M.A.Ed. degree. The Ed.S. programs satisfy academic requirements for the Alabama State Department of Education Class AA Professional Certificate and an Ed.S. degree. See also the section “Education (General Information)” earlier in this catalog.

The program leading to the Doctor of Philosophy (Ph.D.) degree in early childhood education is sufficiently flexible to accommodate the interests and previous preparation of the student, but it must include an internship and a substantial research component culminating in the completion of a dissertation. The minimum admission requirements are those of the UAB Graduate School. However, admission is highly selective, and most successful applicants have qualifications much higher than the minimum. Admission is open with ongoing application considerations. Application packets must be complete in the Graduate School office before the applicant can be considered for the program.

Contact Information

For detailed information, contact:

- Ms. Kathy Scott (Early Childhood, Elementary Education - Certification),
- Dr. Kay Emfinger (Early Childhood, Elementary Education - Non-Certification),
- Dr. Diane Pevsner (Special Education),
- Dr. Susan Spezzini (High School and Middle School Education, Arts Education, Teacher Leader, and English as a Second Language),
- Dr. Jennifer Summerlin (Reading Education)

UAB Department of Curriculum and Instruction, EB 100, 1720 2nd Avenue South, Birmingham, Alabama 35294-1250. Telephone (205) 934-5371
Web: www.ed.uab.education/ci

Art Education

UAB’s Art Education program is housed within the Department of Curriculum and Instruction. This program consists of a Master's of Arts degree in Art Education and also an alternative master's degree in Art Education. The first purpose of this Art Education program is to prepare educators in meeting the evolving needs of learners in grades P-12 within today’s rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach that prepares educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. UAB's teacher education program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online alternating with face-to-face evenings)
- flexible summer programming
- totally online platforms
- Saturday classes

Prospective students should contact the Program Director, Dr. Susan Spezzini, at spezzini@uab.edu (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Music

UAB's Graduate Music program consists of a Master of Arts degree in Arts Education with a Concentration in Music and also an Alternative Master's degree in Arts Education with a Concentration in Music. The Arts Education with a Concentration in Music Program is housed in the Department of Curriculum and Instruction. This program's first purpose is to train educators in meeting the evolving needs of learners in grades P-12 within today's rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach that prepares educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. UAB's teacher education program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online alternating with face-to-face evenings)
- flexible summer programming
- totally online platforms
- Saturday classes

Prospective students should contact the Program Director, Dr. Susan Spezzini, at spezzini@uab.edu (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.
Early Childhood Education

UAB’s Early Childhood Education program (M.A.Ed., Ed.S., Ph.D.) embodies a three-fold purpose. Its first purpose is to prepare educators in meeting the evolving needs of learners, primarily in grades P-6, within today’s rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Based on constructivism, this approach prepares prospective and experienced educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. This program is unique in how it combines online support from the learning management system (i.e. Canvas) with a variety of delivery formats:

• blended courses (online alternating with face-to-face)
• professional learning communities
• flexible summer programming
• internships and practicums
• totally online platforms
• Saturday classes

These purposes are expanded through the Ed.S. program. This advanced degree program infuses an inquiry-focused approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills and mentoring techniques for serving as reflective practitioners to guide change and positively impact student achievement and school improvement. Teachers with Class A certification can pursue EdS-level certification in early childhood education. By then pursuing the Ph.D. program in early childhood education, they can then explore relevant issues, theories, and practice at an even higher level.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Elementary Education

UAB’s Elementary Education program (M.A.Ed., Ed.S.) embodies a three-fold purpose. Its first purpose is to train educators in meeting the evolving needs of learners, primarily in grades P-6, within today’s rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Based on constructivism, this approach prepares prospective and experienced educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. This program is unique in how it combines online support from the learning management system (i.e. Canvas) with a variety of delivery formats:

• blended courses (online alternating with face-to-face)
• professional learning communities
• flexible summer programming
• internships and practicums
• totally online platforms
• Saturday classes

These purposes are expanded and enhanced by the EdS program. It infuses an inquiry-focused teacher leader approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills to serve as reflective practitioners in guiding school change as well as with mentoring techniques to positively impact student achievement and school improvement.

Prospective students should contact the Program Director, Dr. Susan Spezzini, at spezzini@uab.edu (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

English as a Second Language

UAB’s graduate degree program in ESL is comprised of a master of arts (M.A.Ed.) degree and an Educational Specialist (Ed.S.) degree. Both degrees prepare candidates to earn teacher certification in ESL from pre-school (P) through 12th grade. The M.A.Ed. also includes a non-certification track for teaching English as a Second Language to adult learners.

UAB’s MAEd/ESL embodies a three-fold purpose. Its first purpose is to train educators in meeting the needs of the growing population of English learners (ELs), both children and adults, in Alabama and abroad. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Its third purpose is to ensure that a quality MAEd/ESL program is available to teachers throughout the state. Accessible to educators all over Alabama, this MAEd/ESL program is unique in how it combines online support from Canvas with a variety of delivery formats:

• blended courses (online alternating with face-to-face)
• professional learning communities
• one-week summer teacher institutes
• flexible summer programming
• internships and practicums
• totally online platforms
• Saturday classes

These purposes are expanded through the Ed.S. program. This advanced degree program infuses an inquiry-focused approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills and mentoring techniques for serving as reflective practitioners to guide change and positively impact student achievement and school improvement. Teachers with Class A certification can pursue EdS-level certification in elementary education.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Reading

The Reading Education master’s program (M.A.Ed.) prepares teachers to serve as reading specialists and to improve their classroom skills in teaching and coaching for reading. Reading candidates will receive
in-depth knowledge of reading pedagogy and implementation during their program. The reading candidates participate in extensive work with children/students in diverse groupings and settings. A portfolio of professional development in reading is completed by the end of the program.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

**School Psychometry**

UAB’s School Psychometry program (Class A certification or M.A.Ed.) embodies a three-fold purpose. Its first purpose is to prepare candidates to serve as a school psychometrist to assist in meeting the evolving needs of learners, in grades K-12, within today’s rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Based on constructivism, this approach prepares candidates to administer psychological services in the schools. These services include the conduction of psychoeducational assessment on students referred for special services. Its third purpose is to ensure that a quality program is available to candidates who may be unable to attend class during traditional class hours. This program is delivered through a totally online platform.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at www.uab.edu/education/studentservices/admission-requirements.

<table>
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<th>Requirements</th>
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<tr>
<td>ECT 623 Instructional Methods</td>
<td>3</td>
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<tr>
<td>ECT 625 Positive Behavioral Supports</td>
<td>3</td>
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<tr>
<td>EGY 600 Introduction to Exceptional Learner</td>
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<td>EDU 600 Education as a Profession</td>
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<td>EPR 614 Lifespan Human Development</td>
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<tr>
<td>ESP 600 Seminar in School Psychometry</td>
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<td>ESP 627 Practicum in Schi Psychometry</td>
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<tr>
<td>ESP 628 Indiv Assess Child/Youth I</td>
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<td>ESP 629 Indiv Assess Child/Youth II</td>
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<tr>
<td>Total Hours</td>
<td>32-38</td>
</tr>
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</table>

* 1 Advisor approved electives at the 500 or 600 level.

**High School Education**

UAB’s High School Education program prepares pre-service and in-service teachers for teaching in both Middle School and High School. This secondary education program offers the following graduate degrees: Master of Arts in Education (MAEd) and Educational Specialist (Ed.S.).

UAB’s High School Education program embodies a three-fold purpose. Its first purpose is to prepare educators in meeting the evolving needs of learners, primarily in grades 6-12, within today’s rapidly changing society. Based on constructivism, its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach that prepares educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. This program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online & face-to-face evenings)
- professional learning communities
- flexible summer programming
- totally online platforms
- Saturday classes

These purposes are expanded and enhanced by the Ed.S. program. This advanced degree offers standards-based concentrations within discipline areas. It infuses an inquiry-focused teacher leader approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills to serve as reflective practitioners in guiding school change as well as with mentoring techniques to positively impact student achievement and school improvement.

Prospective students should contact the Program Director, Dr. Susan Spezzini, at spezzini@uab.edu (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

**Special Education**

Welcome to UAB where students become skilled, reflective educators through Special Education graduate degree programs in Collaborative Teacher (CT) K-12, Early Childhood Special Education (ECSE), and Visual Impairment (VI). These innovative program offer degrees and/or certification at three levels—alternative masters, traditional masters and specialist.

The alternative masters program (AMP) is for graduate students who do not already hold teacher certification in elementary or early childhood education. To be eligible for seeking initial teacher certification at a masters level, applicants must have an undergraduate degree with a 2.5+ GPA on their transcript from a regionally accredited college. They must have passed the Basic Skills test and the Praxis II exam in the targeted teaching field and also met other criteria stipulated by the ALSDE. Upon completing the AMP, candidates earn alternative Class A certification in this teaching field.

The traditional masters program (MAE) is for teachers who already hold Class B initial certification in any area of education. Upon completing the MAE, they earn Class A certification in the special education teaching field.

The Collaborative Teacher Autism Spectrum Disorders Educational Specialist (EdS) degree program is for teachers who already hold either an Alabama Class B or Class A certificate in any field of special education OR have at least 3 years of verified, full-time teaching experience with special populations and hold a valid Class A Professional Educator Certificate.

The Collaborative Teacher: Concentration in Reading Educational Specialist (EdS) degree program is for teachers who already hold either an Alabama Class B or Class A certificate in any field of special education OR general education who have at least 2 years of verified,
full-time teaching experience with special populations or general populations and hold a valid Class A Professional Educator Certificate. Individuals pursuing this certificate/degree must complete one of two tracks in this program. The track selected depends upon the type of valid, prerequisite Alabama professional educator certificate held PRIOR to unconditional admission to the Class AA Program in Collaborative Teacher. Track 1 is for candidates who DO NOT currently hold a valid Alabama Class A Certificate in Collaborative Teacher. Candidates who must take this track of courses are those with a valid, prerequisite Alabama Class A Professional Educator Certificate in any teaching field (other than Collaborative Teacher). To be eligible to pursue Track 2 courses, candidates MUST hold a valid, prerequisite Alabama Class A Professional Educator Certificate in Collaborative Teacher.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Teacher Leader

The Ed.S. program in Teacher Leadership provides teachers with an avenue for career enhancement and advancement. This program prepares teachers for serving as professional development facilitators, instructional coaches, lead teachers, department chairs, curriculum coordinators, and program area specialists.

Through the standards-based approach of UAB’s Ed.S. Teacher Leader program, teachers learn state-of-the-art instructional strategies for meeting the evolving needs of diverse learners within today’s rapidly changing society. They acquire collaborative skills to serve as reflective practitioners and dynamic leaders in guiding school change and effectiveness. They also learn mentoring techniques for positively impacting student achievement and school improvement.

At UAB, the Teacher Leader program was designed with an executive delivery model. As such, it is accessible to teachers who live at a distance from UAB and also to those who prefer to take courses in non-traditional delivery formats. Courses are delivered through blended instruction (face-to-face alternating with online) and totally online platforms as well as through professional learning communities. This 30-hour program contains six 5-hour modules. Each of these modules consists of a 3-hour content course, a 1-hour research course (R), and a 1-hour field experience course (L). Teachers concentrate on one academic focus per term by taking one module at a time. Moreover, by enrolling in 5 graduate credit hours per term, they are eligible for financial aid during each of the program’s 6 semesters. The EdS Teacher Leader program has a rolling admission, and students can start any semester.

For additional information about the Ed.S. Teacher Leader program, please contact Dr. Susan Spezzini, Program Director, at spezzini@uab.edu (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Human Studies

Program Contact Information

<table>
<thead>
<tr>
<th>Program</th>
<th>Coordinator</th>
<th>Room</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counselor Education</td>
<td>Dr. Stephen Hebard</td>
<td>152</td>
<td>(205) 996-7908</td>
</tr>
<tr>
<td>Educational Leadership</td>
<td>Dr. Keith Gurley</td>
<td>210B</td>
<td>(205) 975-1983</td>
</tr>
<tr>
<td>Community Health and Human Services</td>
<td>Dr. Retta Evans</td>
<td>204</td>
<td>(205) 996-2701</td>
</tr>
<tr>
<td>Kinesiology - Teacher Certification</td>
<td>Dr. Sandra Sims</td>
<td>224</td>
<td>(205) 996-2721</td>
</tr>
<tr>
<td>Kinesiology - Exercise Physiology</td>
<td>Dr. Jane Roy</td>
<td>205</td>
<td>(205) 934-1757</td>
</tr>
<tr>
<td>Research</td>
<td>Dr. Melanie Shores</td>
<td>246</td>
<td>(205) 975-8487</td>
</tr>
<tr>
<td>Foundations</td>
<td>Dr. Tondra Loder-Jackson</td>
<td>219</td>
<td>(205) 934-8304</td>
</tr>
</tbody>
</table>

Educational Foundations

The Educational Foundations (EDF) Program examines how educational institutions shape and are shaped by the social and cultural structures within our society. Our mission is to offer a program that examines current teaching contexts and practice, research, and theory with the aim of increasing our professional candidates’ knowledge and understanding of the socio-cultural, historical, political, and economic factors, as well as the philosophical underpinnings, that influence education and shape the societies and world in which we live. Within a diverse world, we also believe that professional educators should recognize a profound need to intentionally learn about and incorporate their students’ personal experiences, cultures, and community resources into their instruction and programs. It is through our courses that students come to encounter, interrogate, better understand, and embrace the increasingly diverse landscape of our society and P-12 students.

Educational Psychology and Research

At the undergraduate level, The Educational, Psychology and Research Program (EPR) provides courses in psychological foundations and measurement and evaluation that are necessary for all prospective teachers to complete who are pursuing an undergraduate teaching degree. We also house the undergraduate Introduction to Statistics that serves the Health and Kinesiology programs and concentrations.

At the graduate level, we provide educational psychology courses that meet the program requirements for graduate teacher certification programs as well as courses taken for recertification and electives for other Masters, Educational Specialists, and doctoral programs within and outside of the School of Education. Our program houses the research methods and statistics courses that are requirements for the graduate programs within the School of Education. These courses also attract graduate students from programs outside the School of Education such as Nursing, Public Health, and the School of Health Professions.
Counselor Education

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Overview

The program in Counselor Education at the University of Alabama at Birmingham prepares Clinical Mental Health, Marriage, Couples, and Family and School counselors at the Master's level. At the master's level, students acquire core knowledge and clinical skills, which enable them to enter the profession of counseling.

All counseling concentrations (Clinical Mental Health, Marriage, Couples, and Family and School) are designed to meet the course-work and field experiences requirements for professional licensure in the State of Alabama. A 15 credit Marriage, Couples, and Family certificate is offered to provide additional coursework for mental health and school counselors who would like to broaden their clinical expertise and knowledge in Marriage, Couples, and Family counseling. The School Concentration is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The School Counseling Concentration meets the course work and field experiences required by the Alabama State Department of Education for certification.

The Counselor Education program at the University of Alabama at Birmingham is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The accreditation is through January 15, 2018. The Clinical Mental Health Counseling concentration, a 61 hour program, is currently accredited under the 2001 standards for Community Counseling programs as a Community Counseling program. The CACREP 2009 standards combine the Community Counseling and Mental Health Counseling standards into standards for Clinical Mental Health Counseling programs. The counseling program intends to seek accreditation for this program as a Clinical Mental Health Counseling program when it comes up for reaccreditation, per CACREP guidelines. The counseling program also intends to seek CACREP accreditation for the Marriage, Couples, and Family program in the next reaccreditation process.

Admission Process

Consideration for admission to graduate study in Counselor Education will occur in the fall and spring semesters. The completed application packet must be received by the Counselor Education Program from the Graduate School by the dates shown:

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>March 1</td>
</tr>
<tr>
<td>Spring</td>
<td>September 1</td>
</tr>
</tbody>
</table>

Admission to graduate study in Counselor Education is initiated through the Graduate School and all required materials are to be submitted per specified instructions delineated by the Graduate School.

Each applicant seeking admission to a Counselor Education program concentration must include with the other required materials, a typewritten statement of professional purpose that reflects the applicant’s background, development, pertinent work-related experience, professional career objectives and specified ways that completion of this program will contribute to his/her goal for becoming a professional counselor.

Standardized Test Scores and GPA Requirements

Undergraduate GPA: (2.75 or better)

Standardized Test Scores: GRE-V (146 or better) and GRE-Q (147 or better)

Per the 2016 Council for the Accreditation of Counseling and Related Educational Program (CACREP) Standards, admission decisions must include consideration of each applicant’s (1) career goals, (2) aptitude for graduate-level study, (3) potential success in forming effective counseling relationships, and (4) respect for cultural differences.

Given these requirements, the admission committee considers multiple sources of information when making decisions. Because GRE test scores are one of several indicators, lower scores will not automatically disqualify applicants just as high scores do not automatically guarantee admission. Additional sources of information include previous/current grade point average, letters of recommendation, and a personal statement. It should be noted that our applicants typically score above the 50th percentile on both the quantitative and verbal domains.

In addition, applicants deemed to have acceptable scores, strong references, appropriate statement of purposes, and grades will be invited for an interview that will include a series of individual interviews, a group experience, and a possible writing sample with the Counselor Education faculty. Applicants should not infer they have been admitted into the program if granted an admissions interview.

The Counselor Education faculty will make admission decisions after reviewing the applicant's credentials in their entirety, and some candidates meeting minimum requirements may not be admitted. Further, the faculty reserves the right to make subjective decisions about a candidate’s ability to appropriately complete graduate work which may influence the decision to admit. Candidates participating in the interview may be given one of two decisions: a) admit, b) denied. Students are notified of their admission status following the interview.

Non-Degree Seeking Students

Potential students may take classes prior to admission to the Counselor Education Program as "non-degree seeking" students. However, non-degree seeking students are limited to 12 hours of coursework that may be transferred into the Counselor Education Program. Non-degree seeking students may enroll in elective courses with the permission of the instructor. It would be important for non-degree seeking students to make an advising appointment with a Counselor Education faculty member prior to enrolling in Area II courses as choices made could impact on future clinical placements. Non-degree seeking students are not permitted to take Area I counseling courses without permission of the instructor. It is also important to note that students taking coursework as a non-degree seeking student do so at their own risk. Enrolling and passing non-degree seeking coursework does not guarantee admission into the program as admission criteria (e.g., test scores, undergraduate GPA, and interview) are the primary factors considered when reviewing student suitability for the program.

Program Outcomes

Students in the program are required to meet specific outcomes for the program. These outcomes involve knowledge, skills, and abilities.
Outcomes are met when students pass critical "high stakes" assessments in the program. Failure to achieve the required outcomes will result in termination from the program.

Evaluation of Candidates

There are 7 Checkpoints in the assessment system for counseling candidates: Admissions, Course-based Assessments, Comprehensive Exams, Practicum, Internship, and Eligibility for Graduation/Certification. Evaluation of the counselor-in-training is an on-going process. The faculty reserves the right to assess the candidate's appropriateness to be a professional counselor.

Dispositions

Counselor Education faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education's policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

Clinical Experience: Master's Level

Before admission to the program, students in the school counseling concentration must submit to fingerprinting and a Background Review conducted by the Alabama State Department of Education at the student's cost. For information on the cost and how to complete this requirement, go to http://background.alabama.gov/. No school counseling student shall begin a clinical placement (Practicum or Internship in an education environment) in Alabama without a suitability letter from the Alabama State Department of Education demonstrating that the student's criminal background has been reviewed and cleared by the Department of Education. Clinical Mental Health counseling students are not required to submit to fingerprinting or a background review upon admission to the Counselor Education Program. However, Clinical Mental Health counseling students are required to complete clinical placements in order to obtain the master's degree in counseling and many of the outside agencies/entities require fingerprinting and background reviews prior to accepting a student for clinical placement. For all counseling students, the appearance of one or more felonies and/or several misdemeanors on a student’s background review may negatively impact placement potential and/or credential obtainment.

Per CACREP standards, before beginning the first semester of their clinical experience, students must obtain and submit proof of individual liability insurance. This is to be procured by the student at the student's expense and must be maintained throughout the student's clinical experience. Student must submit proof of current individual liability coverage at the beginning of each semester that student is enrolled in a clinical experience. This is a requirement for all counselor education students, regardless of concentration. If proof of insurance is not provided, student will be administratively removed from the clinical course.

Prerequisites for the clinical experience include successful completion of required coursework, meeting the required outcomes and competencies in Areas I and II, and successful completion of comprehensive exams. The practicum experience requires a minimum of 100 hours (including 40 hours of direct client contact) on-site at an appropriate setting to be determined by the Clinical Coordinator. The internship is 600 hours (including 240 hours of direct client contact) on-site. Grading for the clinical experiences is on a Pass/Fail basis. To receive a Pass grade the counselor-in-training must be able to demonstrate basic counseling skills, behave in an appropriate professional manner consistent with the American Counseling Association's Code of Ethics, and satisfactorily complete the academic, dispositional and outcome requirements set forth in both the practicum and internship classes.

ECG 695, Practicum: Each semester of your clinical experience is graded PASS or FAIL in three areas: (a) Proficiency in counseling skills and competencies; (b) Proficiency in each evaluation area submitted by the on-site supervisor; and (c) Pass group supervision requirements. These areas are NOT averaged. You must maintain a PASS in EACH area to receive a PASS for the course. If you FAIL one area, you will FAIL the course. You will receive a syllabus each semester of practicum/ internship describing the requirements necessary to PASS your clinical experience. Students who do not meet the appropriate skill development by the end of the semester of ECG 695 have two options: receive an (I), or receive an (F).

Option 1: Students in ECG 695 who receive an (I) for the developmental remediation shall do so in consultation with the course instructor. A remediation plan shall be developed. Program faculty may also have input into the remediation plan. The remediation plan will outline specific skills which were not met in ECG 695 and will state measurable objectives that are directly related to the unmet skill areas. The remediation plan will go into effect the following semester. Upon satisfactory completion of the remediation plan, the (I) will be changed to reflect the student’s progress. If the student passes the course, then the student will be allowed to move forward and register for ECG 697 (a) in the next semester. A student cannot register for ECG 697 (a) while in remediation for ECG 695. If the student is unable to meet the objectives outlined in the remediation plan, the student's (I) in ECG 695 will be recorded as an (F) and the student will be administratively dropped from the Counselor Education Program.

Option 2: Students in ECG 695 who receive an (F) will be administratively dropped and not allowed to continue in the Counselor Education Program.

ECG 697 (a), Internship: Each semester of your clinical experience is graded PASS or FAIL in three areas: (a) Proficiency in counseling skills and competencies; (b) Proficiency in each evaluation area submitted by the on-site supervisor; and (c) Pass group supervision requirements. These areas are NOT averaged. You must maintain a PASS in EACH area to receive a PASS for the course. If you FAIL one area, you will FAIL the course. You will receive a syllabus each semester of practicum/ internship describing the requirements necessary to PASS your clinical experience. Students who do not meet the appropriate skill development by the end of the semester of ECG 697 (a) have two options: receive an (I), or receive an (F).

Option 1: Students in ECG 697 (a) who receive an (I) for the developmental remediation shall do so in consultation with the course instructor. A remediation plan shall be developed. Program faculty may also have input into the remediation plan. The remediation plan will outline specific skills which were not met in ECG 697 (a) and will state measurable objectives that are directly related to the unmet skill areas. The remediation plan will go into effect the following semester. Upon satisfactory completion of the remediation plan, the (I) will be changed to reflect the student’s progress. If the student passes the course, then the student will be allowed to move forward and register for ECG 697 (b) in the next semester. A student cannot register for ECG 697 (b) while in remediation for ECG 697 (a). If the student is unable to meet the objectives outlined in the remediation plan, the student's (I) in ECG
697 (a) will be recorded as an (F) and the student will be administratively dropped from the Counselor Education Program.

Option 2: Students in ECG 697 (a) who receive an (F) will be administratively dropped and not allowed to continue in the Counselor Education Program.

Receiving an Incomplete: A student will be allowed to participate in a remediation plan only TWICE during their clinical experience.

Concentrations: Master’s Level

Clinical Mental Health Counseling

The Master of Arts in Counseling with a concentration in Clinical Mental Health Counseling is designed to prepare students to demonstrate knowledge and skills with several counseling modalities appropriate for a broad range of clients in a multicultural society; interact effectively with other helping professionals and referral resources; make appropriate counselor-client related decisions in the context of professional, ethical, and legal guidelines; and fill effectively entry-level positions of professional responsibility within the specialization of agency counseling. The coursework is approved by the Alabama Board of Examiners in Counseling, which allows graduates of the program to pursue licensure as professional counselors in the state of Alabama. This program takes no less than 3 years to complete. For most students, it takes approximately 3.5 years or 10 terms (including summers) to complete the program.

COURSE OF STUDY

(61 Semester Hours)

Area I:

Requirements | Hours
--- | ---
ECG 612 | 3
ECG 614 | 3
ECG 621 | 3
ECG 624 | 3
ECG 626 | 3
ECG 628 | 3
ECG 630 | 3
ECG 638 | 3
EPR 590 | 4
EPR 614 | 3
EPR 614 | 3

Cost Hours 28

Comprehensive Exam

The Counselor Preparation Comprehensive Exam will be given the semester of successful completion or upon successful completion of Area I. This is a "high stakes" assessment. Students who do not successfully pass this examination will be given the opportunity to re-take the exam a maximum of two times. There are no exceptions. Students unsuccessful in passing the comprehensive exam after 3 attempts will be dismissed from the program.

AREA II:

Requirements | Hours
--- | ---
ECG 600 | 3
ECG 650 | 3

Marriage, Couples, and Family Counseling

The Master of Arts in Counseling with a concentration in Marriage, Couples, and Family counseling is designed to prepare students to work with individuals, couples, or groups where interpersonal relationships are examined for the purpose of achieving more adequate, satisfying, and productive marriage and family adjustments; make appropriate ethical decisions as counseling professionals; comprehend systems theory and use it to conceptualize problems and solutions for couples and families; and fill effectively, entry-level positions of professional responsibility within the specialization of marriage and family counseling. The coursework allows graduates of the program to pursue licensure as marriage and family therapists in the state of Alabama. This program takes about 3 years to complete.

COURSE OF STUDY

(61 Semester Hours)

Area I:

Requirements | Hours
--- | ---
ECG 600 | 3
ECG 650 | 3
Comprehensive Exam

The Counselor Preparation Comprehensive Exam will be given the semester of successful completion or upon successful completion of Area I. This is a “high stakes” assessment. Students who do not successfully pass this examination will be given the opportunity to re-take the exam a maximum of two times. There are no exceptions. Students unsuccessful in passing the comprehensive exam after 3 attempts will be dismissed from the program.

AREA II

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 613</td>
<td>Foundations of Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>ECG 650</td>
<td>Diagnosis and Treatment of Psychological Disorders</td>
<td>3</td>
</tr>
<tr>
<td>ECG 653</td>
<td>Counseling Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>ECG 685</td>
<td>Marriage and Couples Counseling (Prerequisite: ECG 691)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 660</td>
<td>Relationships and Human Sexuality (Prerequisite: ECG 691)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 680</td>
<td>The Intersections of Family and Community Systems (Prerequisite: ECG 691)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 689</td>
<td>Advanced Family Counseling Techniques (Prerequisites: ECG 691; ECG 694)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 21

Area III: Clinical Requirements

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 695</td>
<td>Practicum II: Supervised Field Experience (Prerequisites: Area I, Comprehensive Exams, and Faculty Recommendation)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 697</td>
<td>Counseling Internship (6 hours - 2 semesters) (Prerequisite: ECG 695)</td>
<td>6</td>
</tr>
</tbody>
</table>

Internship is 600 hours with 240 hours of direct client contact

Total Hours: 9

School Counseling

According to the American School Counseling Association, “the purpose of a counseling program in a school setting is to promote and enhance the learning process.” The goal is to enable all students to achieve success in school and to develop into contributing members of our society.

The concentration in School counseling is designed to prepare individuals as counselors in grades K-12. The program leading to the Master of Arts in Counseling degree requires a minimum of 49 semester hours of prescribed coursework to meet the academic and field experience requirements for the SDE Class A Professional Certificate in school counseling.

Admissions: In addition to the admission requirements for the Counselor Education Program, candidates seeking admission to the school counseling concentration must possess a minimum of a 2.75 undergraduate grade point average. Before the school counseling student can receive certification, the school counseling student must satisfactorily obtain a passing score on the following assessments: Alabama Educator Certificate Test, the Praxis II Test in School Counseling, the National Counselor Exam.

The school counseling concentration meets the course work and field experiences required by the Alabama State Department of Education for certification. The concentrations meet the academic and field experience requirements for licensure as professional counselors in Alabama.

COURSE OF STUDY

(49 Semester hours)

Area I

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR 590</td>
<td>Research &amp; Prgm Eval in Coun</td>
<td>4</td>
</tr>
<tr>
<td>ECG 612</td>
<td>Professional Orientation</td>
<td>3</td>
</tr>
<tr>
<td>ECG 621</td>
<td>Theories of Individual Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EPR 614</td>
<td>Lifespan Human Development</td>
<td>3</td>
</tr>
<tr>
<td>ECG 624</td>
<td>Assessment (Prerequisite: EPR 590)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 626</td>
<td>Group Counseling: Process and Procedures ((Co-requisite: ECG 621))</td>
<td>3</td>
</tr>
<tr>
<td>ECG 628</td>
<td>Social and Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ECG 630</td>
<td>Career Development: Vocational and Life Planning</td>
<td>3</td>
</tr>
<tr>
<td>ECG 638</td>
<td>Practicum I: Clinical Skills and Techniques ((Prerequisite: ECG 621))</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 28

Comprehensive Exam

A National Comprehensive Examination will be given the semester of successful completion or upon successful completion of Area I. This is a “high stakes” assessment. Students who do not successfully pass this examination will be given the opportunity to re-take the exam a maximum of two times. There are no exceptions. Students unsuccessful in passing the comprehensive exam after 3 attempts will be dismissed from the program.

AREA II

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 620</td>
<td>Foundations of School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECG 623</td>
<td>Comprehensive Counseling and Guidance: M/H School</td>
<td>3</td>
</tr>
<tr>
<td>ECG 627</td>
<td>Comprehensive Counseling and Guidance: M/H School</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective (discontinued, fall, 2012)</td>
<td></td>
</tr>
<tr>
<td>ECG 619</td>
<td>Special Issues for School Counselors</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12

AREA III: Clinical Requirements

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 695</td>
<td>Practicum II: Supervised Field Experience (Prerequisites: Areas I &amp; II, Comprehensive Exams, and Faculty Recommendation)</td>
<td>3</td>
</tr>
</tbody>
</table>

Practicum 100 hours; 40 direct hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 697</td>
<td>Counseling Internship (Prerequisite: ECG 695)</td>
<td>6</td>
</tr>
</tbody>
</table>

Internship 600 hours; 240 direct hours

Total Hours: 9
Certificate: Master's Level
Certificate in Marriage, Couples, and Family Counseling

The certificate in Marriage, Couples, and Family counseling prepares school counselors and clinical mental health counselors to position themselves to more effectively work with clients, to better align with evidence-based practice, and to increase their range of services and versatility through additional coursework in this subject area. The certificate is open to current UAB counselor education students as well as graduates of Master’s level school counseling and mental health programs. The certificate consists of 15 credits of coursework, and takes students about one year to complete on average.

Admission Process
Candidates seeking admission to the Marriage, Couples, and Family counseling certificate who are graduates of a Master’s level counselor education program, must complete an application found on the UAB counselor education website, as well as submit a statement of purpose, three letters of recommendation and their graduate-level transcript. Equivalent completed coursework from a CACREP counseling program may be substituted for a required course for the certificate. Admission is accepted for summer and fall terms. The prerequisite course for all other coursework for the certificate is offered in the summer term only. Applicants who do not receive a waiver for this course would apply for the fall term. Applicants who receive a waiver for the prerequisite course would apply for the fall term.

Current UAB clinical mental health or school counseling students who wish to pursue the MCF certificate should speak with their advisor to arrange to complete the required coursework.

COURSE OF STUDY
(15 Semester hours)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 691 Introduction to Couples and Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>ECG 685 Marriage and Couples Counseling (Prerequisite: ECG 691)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 660 Relationships and Human Sexuality (Prerequisite: ECG 691)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 680 The Intersections of Family and Community Systems (Prerequisite: ECG 691)</td>
<td>3</td>
</tr>
<tr>
<td>ECG 689 Advanced Family Counseling Techniques (Prerequisites: ECG 691; ECG 685)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Educational Leadership

Because admission to these programs is selective, prospective students should contact a departmental advisor to determine specific admission requirements for the degree or certificate in which they are interested. For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/student-services/admission-requirements.

The following degrees are offered: MAE in Instructional Leadership (leading to Alabama Class A Certification in Instructional Leadership); the Educational Specialist Degree (leading to Alabama Class AA Certification in Instructional Leadership – must have Class A in Instructional Leadership first); the Doctorate of Education degree (Ed.D.) in Educational Leadership (must have Ed.S. in Educational or Instructional Leadership to apply). The Educational Leadership program also offers a reduced-hour option leading to Alabama Class A Certification in Instructional Leadership for educators who already hold a master’s degree and Class A certification in an instructional or instructional support area, and who have at least three years’ classroom teaching experience.

The programs leading to the Doctorate of Education (Ed.D.) degree in educational leadership are offered at UAB by the joint faculties of UAB and the University of Alabama (Tuscaloosa). Admission is highly selective and is open every other year. In addition to the Graduate School requirements, a portfolio and writing sample are required by the program.

Additional Information
For detailed information, contact Dr. Keith Gurley, Program Director, Educational Leadership, Department of Human Studies, UAB School of Education, 1720 2nd Avenue South, EB 210B, Birmingham, AL 35294-1250.

Telephone: 205-975-1983
E-mail: kgurley@uab.edu (lcollins@uab.edu)
Web: http://www.uab.edu/education/humanstudies/educational-leadership

Dispositions
Educational Leadership faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education’s policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

Community Health and Human Services

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/student-services/admission-requirements.

Overview of Our Programs
The Community Health and Human Services program at UAB is designed to prepare students to work in various professional health settings including national/state health agencies, clinical-based programs and community agencies. In addition to studying contemporary health content, students learn the process of assessing, planning, implementing, and evaluating health-related programs and interventions. Students are provided numerous opportunities to practice classroom skills in the community through service learning embedded throughout the curriculum.

Master of Arts in Education: Community Health
The Community Health and Human Services program at UAB prepares students for advanced employment opportunities beyond the bachelor’s degree level (MAE in Community Health). Work settings include public, volunteer, and private health agencies, clinics, and worksites. Students...
use skills in health education program planning, implementation, and evaluation. Students are also provided numerous opportunities to practice classroom skills in the community through service learning. Students learn research protocol and have opportunities to complete either a thesis or take comprehensive exams. Required courses include research design, foundations of health education, planning and evaluating programs, administration, and health behavior theory. Course work is aligned with the responsibilities and competencies of advanced level health educators developed by the National Commission for Health Education Credentialing www.nchec.org. This program of study has been developed to include the knowledge and skill competencies needed to be eligible and prepared to sit for the Certified Health Education Specialist (CHES) exam.

M.A.Ed. Admission Process

Consideration for admission to the master's degree program will occur each Fall and Spring term. The completed application packet must be received by the Community Health and Human Services Program from the Graduate School by the dates shown:

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>April 30</td>
</tr>
<tr>
<td>Spring</td>
<td>October 30</td>
</tr>
</tbody>
</table>

Admission to graduate study in Community Health and Human Services is initiated through the Graduate School and all required materials are to be submitted per specified instructions delineated by the Graduate School. M.A.Ed. applicants should have a cumulative GPA of 2.50/4.00 or greater for prior college coursework and preferred MAT score of 399 or greater, or preferred GRE scores of 150 or greater for Verbal Reasoning and 149 or greater for Quantitative Reasoning. In rare cases, applicants who do not meet these standards may be considered for admission if the faculty determines the candidate brings something unique to the learning community.

In addition, applicants must include a typewritten statement of professional purpose that reflects the applicant's background, development, pertinent work-related experience, professional career objectives and specified ways that completion of this program will contribute to his/her goal for becoming a health education professional.

All applications for graduate admission are reviewed by the community health and human services faculty. Applicants deemed to meet requirements will be contacted for an interview with the Admissions Committee. Applicants should not infer they have been admitted into the program if granted an admissions interview. Selection will be made by the faculty after reviewing the applicant's credentials in their entirety, and some candidates meeting minimum requirements may not be admitted. Candidates participating in the interview may be given one of two decisions: a) admit, or b) not admit. Students are notified of their admission status following the interview.

Programs of Study for Master’s Degrees

(Program Coordinator, Dr. Retta Evans, revans@uab.edu)

The Graduate Certificate in Community Health Education is designed for students who have a desire to work in the community or enhance their skills in academia and want some preparation at the graduate level in community health, but not a full master's degree. This certificate will formally recognize UAB students and community professionals who receive the necessary skills and training in community health education. All courses are offered online.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 631 Planning and Implementing Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 632 Administration of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 642 Health Behavior and Health Education</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 697 Evaluation of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose One of the Following Options

| CHHS 610 Foundations of Health Education/Promotion | 3     |
| CHHS 606 Advanced Issues of Disease Prevention in Health Education/Promotion | 3     |
| CHHS 689 Intervention Strategies for Health Education/Promotion | 3     |
| CHHS 621 Health Communication                     | 3     |

Total Hours 15

The M.A.Ed. in Community Health is designed to prepare individuals for advanced health education careers in agency, schools, worksites, and allied health care settings. All courses are offered online. This program is aligned with the National Commission for Health Education Credentialing and prepares students to sit for the CHES/MCHES certification. CHES/ MCHES provides evidence of competency of the knowledge, skills and application of the Areas of Responsibilities defining the role of an entry or masters-level health educator. Program options allow students to select thesis, or non-thesis as options.

M.A.Ed. – Community Health, Thesis Option

Thesis required (33 hours course work required)

NOTE: No individual course grade below “C” will be accepted. Each course with a grade below “C” must be repeated.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 606 Advanced Issues of Disease Prevention in Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 610 Foundations of Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 631 Planning and Implementing Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 632 Administration of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 642 Health Behavior and Health Education</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 697 Evaluation of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 689 Intervention Strategies for Health Education/Promotion</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements

All students must have these courses or equivalents upon entering the program

| CHHS 223 Introduction to Disease Prevention in Health Education/Promotion | 3     |
| CHHS 343 Behavioral Theory in Health Education/Promotion                   | 3     |

Research Courses

| EPR 609 Statistical Methods and Research in Education: Intermediate ((Prerequisites: EPR 607 and EPR 608)) | 3     |
| EPR 594 Introduction to Educational Research Design                        | 3     |
| Thesis                                                                        | 3     |
| Graduate Elective (MUST be approved by a Community Health and Human Services advisor) | 3     |

Total Hours 33
M.A.Ed. – Community Health, Non-Thesis Option
(33 hours course work required.)

NOTE: No individual course grade below “C” will be accepted. Each course with a grade below “C” must be repeated.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Courses</td>
<td></td>
</tr>
<tr>
<td>CHHS 606  Advanced Issues of Disease Prevention in Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 610  Foundations of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 631  Planning and Implementing Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 632  Administration of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 642  Health Behavior and Health Education</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 689  Intervention Strategies for Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 697  Evaluation of Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>Additional Requirements</td>
<td></td>
</tr>
<tr>
<td>All students must take these courses or their equivalents upon entering the program</td>
<td></td>
</tr>
<tr>
<td>CHHS 223  Introduction to Disease Prevention in Health Education/Promotion</td>
<td></td>
</tr>
<tr>
<td>CHHS 343  Behavioral Theory in Health Education/Promotion</td>
<td></td>
</tr>
<tr>
<td>Research Courses</td>
<td></td>
</tr>
<tr>
<td>EPR 594  Introduction to Educational Research Design</td>
<td>3</td>
</tr>
<tr>
<td>EPR 609  Statistical Methods and Research in Education: Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Elective (Must be approved by a Community Health and Human Services advisor).</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 693  Advanced Field Experience in Community Health Education</td>
<td>3-6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>33-36</td>
</tr>
</tbody>
</table>

Comprehensive Examination Non-Thesis Option Only

Students in the Non-Thesis M.A.Ed. program must complete a supervised internship including comprehensive exams during their last semester of course work. The examination process is intended to allow students to demonstrate the appropriate aptitude for advanced level health education. The process encompasses the content knowledge and critical thinking skills that Community Health and Human Services faculty believes every student graduating from this program should possess. A student cannot attempt the internship and comprehensive exam more than twice. Those who cannot complete the internship and exam with a passing score during the second attempt will be dismissed from the program and not allowed readmission. Contact your community health and human services academic advisor for further information.

Community Health Concentration with Nonprofit Management Certificate

Through this joint venture between the Community Health and Human Services program and the Department of Government, students learn advanced health education programming, planning, implementation, and evaluation as well as nonprofit management skills such as grant writing and fund raising. The program exposes students to volunteer, and private health agencies; clinics; and worksites.

Admission Requirements: Admission to the Master of Arts in Education, Health Education, Community Health Concentration with Nonprofit Management Certificate is a two-part process. Students must apply for admission through the UAB Graduate School and must also complete the Non-Profit Management application. For more information on this application, visit this link [www.uab.edu/cas/government/graduate-program/nonprofit-management-certificate](http://www.uab.edu/cas/government/graduate-program/nonprofit-management-certificate). For more information about this program, visit this link [www.uab.edu/education/humanstudies/chhs/maed-in-health-education-nonprofit-management](http://www.uab.edu/education/humanstudies/chhs/maed-in-health-education-nonprofit-management).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Courses for Both Thesis and Non-Thesis Options</td>
<td></td>
</tr>
<tr>
<td>CHHS 610  Foundations of Health Education/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 606  Advanced Issues of Disease Prevention in Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 631  Planning and Implementing Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>MPA 671  Marketing and Fundraising</td>
<td>3</td>
</tr>
<tr>
<td>MPA 672  Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 642  Health Behavior and Health Education</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 689  Intervention Strategies for Health Education/Promotion Programs</td>
<td>3</td>
</tr>
<tr>
<td>MPA 689  Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EPR 609  Statistical Methods and Research in Education: Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>EPR 594  Introduction to Educational Research Design</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Level MPA Elective (choose one):</td>
<td></td>
</tr>
<tr>
<td>MPA 684  Grants Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 695  Special Topics in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>MPA 674  GIS for Managers</td>
<td>3</td>
</tr>
<tr>
<td>MPA 678  Strategic Planning</td>
<td>3</td>
</tr>
<tr>
<td>Thesis or Non-thesis option; choose one:</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 699  Thesis Research</td>
<td>3</td>
</tr>
<tr>
<td>CHHS 693  Advanced Field Experience in Community Health Education</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

Graduate Traineeship in Pediatric Pulmonary Care (with School of Health Professions)

A Graduate Traineeship in Pediatric Pulmonary Care (PPC) is offered to one student and is designed specifically for professionals desiring a graduate degree in Community Health and Human Services who are interested in pediatric pulmonary care, and aspiring to positions of leadership. The traineeship features a combination of planned coursework, hospital rounds, pulmonary clinics, patient and family education and research experience and is designed specifically for professionals desiring a graduate degree in Community Health and Human Services (master’s or doctorate), who are interested in pediatric pulmonary care, and aspiring to positions of leadership. This 12-month interdisciplinary training program is offered to graduate students in Respiratory Therapy - Community Health and Human Services nursing, nutrition, social work and medicine. Training is provided in each of the Maternal and Child Health Leadership Competencies. The Traineeship includes a monthly stipend (for up to 12 months) and tuition assistance (limited to U.S. citizens or to individuals with a permanent visa). If interested in the PPC program, contact Dr Wajih Ahmad, wahmad@uab.edu
Student Professional Dispositions

Community Health and Human Services faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education's policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

Graduate Program Policies

No individual course grade below “C” will be accepted. Each course with an earned grade below “C” must be repeated. Repeating a required health education course more than twice is not permitted. If a student receives a grade lower than a “C” after their second attempt, he or she will be dismissed from the Community Health and Human Services program and not allowed readmission.

Non-Degree Seeking Graduate Students

Following admission to the UAB Graduate School, students may enroll in elective Community Health and Human Services courses as "non-degree seeking" students with the permission of the instructor. Non-degree seeking students are limited to 12 hours of coursework. It is essential for non-degree seeking students to make an advising appointment with a faculty member prior to enrolling in elective courses as some elective courses have pre-/co-requisites. Non-degree seeking students are not permitted to take "core" health education courses prior to admission. Enrolling and passing non-degree seeking coursework does not guarantee admission into a masters or doctoral degree program. Admission criteria (e.g., test scores, cumulative GPA, recommendations, and interview) are the primary factors considered when reviewing student suitability for admission to a program.

Health Education/Health Promotion

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

Health Education/Health Promotion (PhD)

Graduate Program Director (Education): Dr. Retta Evans, rrevans@uab.edu

Ph.D. Health Education/Health Promotion

The PhD in Health Education/Health Promotion is a UA System degree jointly administered by three units: UAB School of Education and College of Arts & Sciences, UAB School of Public Health, and UA College of Human Environmental Sciences. Students draw upon the expertise and resources of a diverse and highly qualified faculty. Faculty members strive to create a rigorous scholarly and supportive atmosphere for students to develop intellectually with the knowledge, skills and attitudes necessary to be ethical and responsible health education professionals.

Ph.D. Admission Process

Consideration for admission to graduate study in health education will occur each Fall and Spring term. The completed application packet must be received by the Community Health and Human Services Program from the Graduate School by the dates shown:

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>April 30</td>
</tr>
<tr>
<td>Spring</td>
<td>October 30</td>
</tr>
</tbody>
</table>

Candidates for admission must have completed a bachelor’s or master’s degree from an accredited institution in health education or a health-related field. Admission to doctoral study is initiated through the Graduate School. Applicants will: (a) request official transcripts of all college coursework to send to UAB Graduate School; (b) submit (3) letters of recommendation from professors or others who are qualified to judge your ability to complete doctoral coursework; (c) complete the GRE indicating UAB as the recipient of your scores; and (d) submit writing sample(s), such as an essay describing your academic training, professional experiences and career goals. Admission to the program is competitive.

Ph.D. applicants should have a cumulative GPA of 3.00/4.00 or greater for prior college coursework and preferred GRE scores of 312. or greater Faculty consider GRE scores as one indicator of an applicant’s potential success in the doctoral program.

Ph.D. Health Education/Health Promotion Program of Study

Students may enter the program with either a bachelor's or master's degree in health education, or a master's degree in a closely related health field. Prerequisite coursework includes Foundations of Health Education, Health Education Planning and Evaluation, and Research Design and Statistics. These requirements may be corequisite components in the program.

Students entering the program with a master's degree may transfer appropriate coursework to this program; however, this will not reduce the number of courses required. Students will not be required to retake coursework already completed but may be required to complete prerequisites as part of their planned course of study.

A required review of student credentials prior to admission will identify strengths and needs. This review will provide students with a blueprint for their course of study and will be conducted by the program director and faculty advisor.

The PhD degree program will require students to complete a minimum of 72 credit hours: 42 hours of coursework, 12 hours of research internship, and 18 hours of dissertation research. Students will meet regularly with a faculty advisor to plan course enrollment.

Research and Statistics Prerequisites: Students are required to have completed the following courses (or equivalents) BEFORE enrolling in the Advanced Research and Statistical Methods Core.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR 594</td>
<td>3</td>
</tr>
<tr>
<td>EPR 596</td>
<td>3</td>
</tr>
<tr>
<td>EPR 608 &amp;</td>
<td>4</td>
</tr>
<tr>
<td>EPR 607</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistical Methods and Action Research and Microcomputer Applications to Statistical Analysis</td>
<td></td>
</tr>
</tbody>
</table>
School of Education graduate programs, please visit the Admissions

For detailed information regarding admission requirements for the

second time, they will be dismissed from the program.

Students who fail to achieve passing scores will have one attempt to

remediate within a calendar year. If a student fails a section for the

Grading of the comprehensive exam is done blinded, and by consensus.

The Comprehensive exam will be offered twice each year and is written

and graded by the graduate faculty in the joint doctoral program. The

comprehensive exam is a synthesis of the core coursework as well as core

competencies for the profession, and related literature of the discipline.

The specific components of the PhD program in health Education and

Health Promotion are outlined below.

**Ph.D. through the School of Education**

**Requirements**

<table>
<thead>
<tr>
<th>I. Health Education and Promotion CORE Courses</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHHS 731 Advanced Theoretic/Scientific Basis of Health Education &amp; Health Promotion</td>
<td></td>
</tr>
<tr>
<td>CHHS 732 Planning and Administration of Health Education/ Promotion Programs</td>
<td></td>
</tr>
<tr>
<td>CHHS 733 Evaluation of Health Education/Promotion Programs</td>
<td></td>
</tr>
<tr>
<td>CHHS 734 Health Education Seminar I</td>
<td></td>
</tr>
<tr>
<td>CHHS 735 Health Education Seminar II</td>
<td></td>
</tr>
<tr>
<td>CHHS 736 Health Education Seminar III</td>
<td></td>
</tr>
</tbody>
</table>

**II. Advanced Research and Statistical Methods Core**

<table>
<thead>
<tr>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI 610 Principles of Epidemiologic Research</td>
</tr>
<tr>
<td>EPR 696 Qualitative Research: Inquiry and Analysis</td>
</tr>
<tr>
<td>EPR 710 Computer Applications and Advanced Statistical Methods</td>
</tr>
</tbody>
</table>

**Graduate Research Design**

<table>
<thead>
<tr>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR 695 Survey Methods in Educational Research</td>
</tr>
<tr>
<td>EPR 792 Mixed Methods Approaches to Educational Research</td>
</tr>
</tbody>
</table>

**III. Coursework in the Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV. Research Internship</td>
</tr>
</tbody>
</table>

**V. Dissertation**

| 72 |

1. Choose one course that fits the needs of your dissertation, with the approval of an advisor. Two examples are listed, but other courses could apply.

2. Selection of courses pre-approved by doctoral program advisor to build knowledge and skills in a cognate area, e.g. Health Disparities, Research, Global Health, Public Health Policy, Aging and Health, Disabilities and Health.

**Comprehensive Examination**

A written comprehensive examination is required of all candidates for the Ph.D. degree. Your preparation will include studying course content, core competencies for the profession, and related literature of the discipline. Prior to taking the exam, students must have completed their core course requirements. Students must register for a minimum of 3.0 hours of graduate work during the semester in which the comprehensive exam is taken.

The Comprehensive exam will be offered twice each year and is written and graded by the graduate faculty in the joint doctoral program. The examination will be a synthesis of the core coursework as well as core competencies in the field of Health Education and Health promotion. Grading of the comprehensive exam is done blinded, and by consensus. Students who fail to achieve passing scores will have one attempt to remediate within a calendar year. If a student fails a section for the second time, they will be dismissed from the program.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at https://www.uab.edu/education/studentservices/admission-requirements.

**Kinesiology**

Degrees offered include the Master of Science in Education and the Educational Specialist. At the master's degree level, students may specialize in Exercise Physiology (see listing below for more information about this program) or complete a teacher certification program. (traditional master's program for those holding a valid B level certificate in physical education or the alternative master's program for those NOT completing an undergraduate physical education teacher education program). The teacher certification program links teacher certification with the graduate program in physical education. For example, the M.S. awards the level A certificate and the Ed.S. is linked to the AA certificate. Each program requires a teaching certificate in physical education at the previous level (e.g., B certificate for admission to the A level, except the Alternative A program, and the A certificate for admission to the AA certificate).

**Dispositions**

Physical Education faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education’s policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

**Master of Science and "A" level teaching certificate; Non-Thesis**

(31-34 hours)

Teaching Field: At least 1/3 of the program shall be teaching field courses. (18 hours)

**Requirements**

<table>
<thead>
<tr>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 643 Curriculum Development in Physical Education</td>
</tr>
<tr>
<td>KIN 647 Teaching Strategies and Issues in K-12 PE</td>
</tr>
<tr>
<td>KIN 697 Advanced Field Experience in Kinesiology</td>
</tr>
<tr>
<td>600 Level Electives as approved by advisor (KIN 645 and KIN 649 are recommended)</td>
</tr>
</tbody>
</table>

**Total Hours**

**Additional Courses: (13-16 hours)**

**Requirements**

<table>
<thead>
<tr>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey of Special Education Coursework: Required if not previously completed (0-3 hours)</td>
</tr>
<tr>
<td>ECY 600 Introduction to Exceptional Learner</td>
</tr>
<tr>
<td>EPR 607 Microcomputer Applications to Statistical Analysis</td>
</tr>
<tr>
<td>EPR 608 Statistical Methods and Action Research</td>
</tr>
<tr>
<td>EDF or EPR 600 level course</td>
</tr>
<tr>
<td>Elective (as approved by advisor)</td>
</tr>
</tbody>
</table>

**Total Hours**

**Master of Science and "A" level teaching certificate; Thesis**

(30-33 hours)
Teaching Field: At least 1/3 of the program shall be teaching field courses. (18 hours)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECY 600 Introduction to Exceptional Learner</td>
<td>3</td>
</tr>
<tr>
<td>KIN 643 Curriculum Development in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 647 Teaching Strategies and Issues in K-12 PE</td>
<td>3</td>
</tr>
<tr>
<td>KIN 693 Advanced Field Experience in Physical Education</td>
<td>3-6</td>
</tr>
<tr>
<td>KIN 699 Thesis Research</td>
<td>6</td>
</tr>
</tbody>
</table>

Survey of Special Education Coursework: Required if not previously completed (0-3 hours)

Total Hours 18-21

Additional Courses: (13 hours)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF or EPR 600 level course</td>
<td>3</td>
</tr>
<tr>
<td>EPR 596 Introduction to Qualitative Methods in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EPR 609 Statistical Methods and Research in Education: Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>Elective (as approved by advisor)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 15

**Alternative A (Non-Traditional 5th-Year Physical Education program) Non-Thesis**  
(51-54 hours)

Additional requirements are 14 hours of prescribed coursework. Contact the Office of Student Services in Suite 232 of the Education Building for specific courses required.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey of Special Education Coursework: Required if not previously completed (0-3 hours)</td>
<td></td>
</tr>
<tr>
<td>ECY 600 Introduction to Exceptional Learner</td>
<td>3</td>
</tr>
<tr>
<td>Professional Studies:</td>
<td></td>
</tr>
<tr>
<td>EDF or EPR 500 - 600 level course (Advisor Approval Required)</td>
<td>3</td>
</tr>
<tr>
<td>EDR 551 Reading in Content Areas</td>
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</tr>
<tr>
<td>EDU 500 Education as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>Evaluation of Teaching and Learning:</td>
<td></td>
</tr>
<tr>
<td>EPR 607 Microcomputer Applications to Statistical Analysis</td>
<td>1</td>
</tr>
<tr>
<td>EPR 608 Statistical Methods and Action Research</td>
<td>3</td>
</tr>
<tr>
<td>Reading:</td>
<td></td>
</tr>
<tr>
<td>Internship:</td>
<td></td>
</tr>
<tr>
<td>KIN 696 Elementary/Secondary Physical Education Internship</td>
<td>9</td>
</tr>
<tr>
<td>Teaching Field:</td>
<td></td>
</tr>
<tr>
<td>At least 1/3 of the program shall be teaching field courses</td>
<td></td>
</tr>
<tr>
<td>KIN 500 Organization &amp; Admin of PE</td>
<td>3</td>
</tr>
<tr>
<td>KIN 509 Assessment in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 511 Elementary School Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 520 Fitness and Motor Skill Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>KIN 520L Sport Skill Proficiency</td>
<td>1</td>
</tr>
<tr>
<td>KIN 523 Techniques of Teaching LIFE Skills in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>KIN 589 Physical Education Instructional Strategies</td>
<td>6</td>
</tr>
<tr>
<td>KIN 645 Advanced Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 647 Teaching Strategies and Issues in K-12 PE</td>
<td>3</td>
</tr>
</tbody>
</table>

KIN 649 Adapted Physical Education 3  
KIN 607 Principles of Coaching 3  

Total Hours 57

**Ed.S. Degree**  
(30-33 hours)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Field:</td>
<td></td>
</tr>
<tr>
<td>At least 1/3 of the program shall be teaching field courses (12)</td>
<td></td>
</tr>
<tr>
<td>KIN 636 Current Readings in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 715 Advanced Field Experience in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 726 Supervised Research in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Survey of Special Education Coursework: Required if not previously completed. (0-3 hours)</td>
<td></td>
</tr>
<tr>
<td>ECY 600 Introduction to Exceptional Learner</td>
<td>3</td>
</tr>
<tr>
<td>KIN 729 Physical Education Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Additional Courses:</td>
<td></td>
</tr>
<tr>
<td>EDF or EPR 600 level course</td>
<td>3</td>
</tr>
<tr>
<td>EPR 596 Introduction to Qualitative Methods in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EPR 609 Statistical Methods and Research in Education: Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>Electives with Permission of Advisor 600- or 700-level Professional Studies or Teaching Field courses</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Hours 33

**Exercise Physiology**

The Exercise Physiology specialization offers a master’s degree option for students interested in either clinical exercise physiology or physiology research. The curriculum is multidisciplinary and comprises courses in the Schools of Education, Medicine, Health Related Professions, and Public Health. Two program plans are offered (detailed below). Plan I culminates with a thesis research project, and Plan II culminates with a written comprehensive exam. Resources for student participation in research include a Muscle Research Laboratory, a Strength Performance Laboratory, and a Body Composition/Energy Metabolism Laboratory. Wide arrays of field experiences are also available in local agencies and clinics. In addition to Graduate School admission requirements, prospective students must have completed undergraduate coursework in physiology, anatomy, and chemistry. First-year students begin in the fall term. Listed below are the courses required in the program and a sample of elective courses.

**M.S. Program**

**Admission Requirement and Prerequisites**

In addition to the general admission requirements of the Graduate School, potential applicants must have passed an undergraduate or graduate level BY or CH course. This prerequisite is not part of the graduate program.

**Plan I - 27 hours and Thesis**  
(33 Hours of Coursework)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPR 596 Introduction to Qualitative Methods in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EPR 609 Statistical Methods and Research in Education: Intermediate</td>
<td>3</td>
</tr>
</tbody>
</table>
School of Engineering

Dean: Dr. J. Iwan Alexander

The School of Engineering is comprised of five departments: Biomedical Engineering; Civil, Construction, and Environmental Engineering; Electrical and Computer Engineering; Materials Science and Engineering; and Mechanical Engineering. The School offers six programs leading to a master’s degree and four programs leading to a doctoral degree.

Engineering at UAB is about smart, driven students from across the city, state, and world learning together and taking advantage of a multitude of opportunities for real-world educational experiences. Engineering at UAB is about collaboration: projects that are bringing engineers together with medical professionals, business leaders, and fellow scientists from other disciplines, in order to push the envelope and discover new, innovative solutions for the challenges our world faces. The School of Engineering seeks to provide students with the opportunities you need to meet your goals.

Interdisciplinary Programs

The School of Engineering offers an Interdisciplinary Engineering PhD program with concentrations in Computational Engineering and Environmental Health & Safety Engineering. Additionally, the Departments of Mechanical Engineering and Art & Art History bring their collective expertise and experience together to offer a new interdisciplinary Category A certificate program involving an integrated art and engineering curriculum. The Leonardo Art & Engineering Graduate Certificate program provides cross-disciplinary training in simulation, art, visualization, and virtual reality (VR) to students with a BS/BA degree in Arts and Sciences, Engineering, Business, or Healthcare-related disciplines for addressing marketing, education/training, entertainment, product development, and design application demand of the 21st century growth area in 3D and VR technologies.

Interdisciplinary Engineering (Ph.D)

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Concentrations offered: Computational Engineering, Environmental Health & Safety Engineering

Faculty: Because of the interdisciplinary nature of this program, participating faculty come from various areas of engineering and science. A complete listing of all participating faculty can be found online

Program Objectives

For more than a decade, research-focused centers at UAB and elsewhere have brought together expertise from many disciplines to solve problems. This same problem-solving approach is now finding its way into academic programs through the implementation of interdisciplinary graduate education. It is the premise of these interdisciplinary programs that students must be educated in more than one area to remain competitive and have successful careers whether they choose to stay in academia or work in industry. Industries are particularly interested in graduate education that emphasizes breadth of knowledge as well as depth in a particular field. Today’s professional must be able to change, focus, and move between disciplines in order to keep up with rapid market shifts and technological advances.

The Ph.D. program in Interdisciplinary Engineering takes advantage of unique resources and strengths at UAB. This program fosters interdisciplinary interactions between the School of Engineering and medical and biomedical units and the Schools of Business and Public Health and the College of Arts and Sciences. Students in Interdisciplinary Engineering will have the opportunity to develop a plan of study and

Sample Major Electives for Plan I and II

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Electives</td>
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<td>CHHS 502</td>
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Electives in Major

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Total Hours

36

Plan II - 36 Hours and Comprehensive Exam

(36 hours of coursework)

Major Courses (12-15 hours)

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Total Hours

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Sample Major Electives for Plan I and II

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<th>Hours</th>
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<tbody>
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<td>Thesis Research</td>
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<table>
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<tr>
<td>Health &amp; Safety Engineering</td>
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<td>Art &amp; Art History</td>
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</table>
The students enrolled in the Interdisciplinary Engineering Ph.D. program will gain the skills needed to succeed as independent and productive investigators in multidisciplinary analysis and design, with applications over a wide spectrum of science, engineering, health, and medical fields. The interdisciplinary program will:

- Provide a rigorous academic curriculum including course work in two or more disciplines,
- Provide collaborative interactions with students and faculty from a variety of disciplines,
- Provide unique opportunities for interdisciplinary research, and
- Facilitate continued development of high quality research programs supported by external funding. Two tracks are available in the Interdisciplinary Engineering Ph.D. program – Computational Engineering and Environmental Health & Safety Engineering.

**Admission Requirements**

Students applying to the Interdisciplinary Engineering Ph.D. program have completed an undergraduate degree in a supporting field and must submit official transcripts and Graduate Record Exam (GRE) scores with their application. In general, GRE quantitative and verbal scores of at least 50th percentile and a minimum undergraduate or master’s degree grade point average of 3 on a 4 point scale are required for admission. Students for whom English is a second language should have a score no less than 100 on the Internet Based TOEFL (Test of English as a Foreign Language). In the essay submitted by the student as part of the application package, the applicant is encouraged to identify his/her research interest. This information will help the admission committee in decision making. The Interdisciplinary Engineering Admissions Committee reviews all applications completed and submitted and will make all admission decisions.

**Degree Requirements**

The Ph.D. in Interdisciplinary Engineering promotes a research-based curriculum. A minimum number of core courses will be required of all students in the program, with additional course work directed by the student’s graduate research committee based on the student’s area of interest. Committee members must be selected from at least two different disciplines, and the planned curriculum must result in cross training in two or more disciplines.

Students entering the Ph.D. program with a baccalaureate degree must, in keeping with UAB Graduate School Policies, complete at least 48 hours of course work prior to admission to candidacy. Up to 16 credits of the 48 can be as non-dissertation research credits, and up to 10 credits can be as lab rotations, seminars or directed study credits. Students entering the Ph.D. program with a Master’s degree in a related field, M.D., DMD, etc., must complete at least 27 credit hours of course work prior to candidacy. Up to 6 credits of the 27 can be non-dissertation research credits, and up to 6 credits can be as lab rotations, seminars, or directed study credits.

The UAB Graduate School also requires that students complete at least two semesters as a full time student in candidacy or accumulate at least 24 credits in research hours or course work in candidacy prior to granting of degree. At least 24 hours of dissertation research will be required for Ph.D. program graduates in Interdisciplinary Engineering.

All students in the IE program must complete the following core courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EGR 710 Intro to Interdisciplinary EGR</td>
<td>3</td>
</tr>
<tr>
<td>EGR 711 Methodology for EGR Research</td>
<td>3</td>
</tr>
<tr>
<td>Journal Club - 4 enrollments of 1 hour each</td>
<td>4</td>
</tr>
<tr>
<td>EGR 796 Journal Club in Interdisciplinary Engineering</td>
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</tbody>
</table>

A Comprehensive Exam is required of all doctoral candidates. The exam may include both written and oral components and will include presentation of the student’s dissertation proposal. The exam will be administered by the student’s graduate research committee. Upon successful completion of the Qualifying Exam and completion of at least 48 hours of course work (in keeping with Graduate School requirements), a student is admitted to doctoral candidacy.

A dissertation showing the ability to conduct independent research and organizational and presentation skills must be prepared on a topic in the research field of interest. Dissertation results are expected to be submitted for refereed scholarly publication. The dissertation must comply with UAB dissertation preparation guidelines. When the dissertation has been completed, doctoral candidates will present and defend their work before their graduate research committee and the public. This defense will constitute the candidate’s final exam. The results of the examination must be reported to the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

**Program Resources**

High Performance Computing (HPC), High Fidelity Simulations (HFS), Tera/Penta-scale data mining/management/analysis, image processing, feature extraction, pattern recognition, and geometry reconstruction are the key enabling technologies in addressing 21st century science and engineering problems. These technologies are necessary for the development of cross-cutting tool kits to enhance research and development in interacting biological, chemical, medical, physical, business and finance, and engineering phenomena associated with interdisciplinary engineering research.

In response to this need, UAB has made a strategic investment in establishing an Enabling Technology Laboratory (ETLab). The ETLab provides software and hardware infrastructure and support for high performance parallel and distributed computing, numerical tools, information technology-based computing environments, and computational simulation to UAB and Southern Research Institute (SRI) researchers. In collaboration with UAB interdisciplinary investigators, the ETLab has established 6.0+ Teraflops high performance computing clusters, including an IBM Blue gene with 2048 processors and a visualization infrastructure with stereoscopic and high resolution large displays. Both hardware and software essential for interdisciplinary engineering research can be fully supported by this equipment.

A 3D laser scanner necessary for full three-dimensional modeling and reconstruction was acquired by a collaborative team including faculty from the Schools of Engineering and Medicine. Access to this and other equipment, as well as clinical data available in the Radiology, Orthopedic, and Surgery departments and the School of Dentistry will be available to the students and interdisciplinary teams of faculty members participating in the interdisciplinary engineering program. These teams have already been collaborating on several sponsored and un-sponsored research programs in both computational engineering and environmental health and safety engineering tracks.

Additional equipment to facilitate engineering research is available to Interdisciplinary Engineering students through the laboratories of
the Departments of Materials Science & Engineering, Mechanical Engineering, Electrical & Computer Engineering, Biomedical Engineering, and Civil, Construction, & Environmental Engineering. Additional equipment is available to students through participating faculty from other Schools across campus.

Program Curriculum

The Ph.D. in Interdisciplinary Engineering program encompasses a broad spectrum of possible fields of expertise in engineering and science, and as such, curriculums vary depending on the specific fields of research and background of the student.

Computational Engineering (CME) Track

The CME track of the Interdisciplinary Engineering program takes advantage of UAB’s diversified Schools of Engineering, Public Health, Dentistry and Medicine and College of Arts and Sciences to produce Ph.D. candidates cross-trained in computational engineering from a variety of disciplines. The program provides students an in-depth foundation and innovation opportunities in interdisciplinary aspects of enabling technologies - geometry generation and computer-aided geometry design, mesh generation and adaptation, visualization, augmented reality and virtual reality, image processing and pattern recognition, design optimization, computational fluid dynamics, computational structural mechanics, high performance and parallel computing, and molecular dynamics applicable to disparate time and length-scale problems encountered in biomedical, biology, medicine and surgery, physics and biophysics, manufacturing, combustion, aeronautics and aeronautics, and energy, environment and power.

Environmental Health and Safety Engineering (EHSE) Track

The EHSE track of the Interdisciplinary Engineering program takes advantage of UAB’s diversified Schools of Engineering and Public Health, and College of Arts and Sciences as well as the nationally renowned health sciences center, to produce Ph.D. candidates cross-trained in public health, environmental, and safety engineering from a variety of disciplines. The program provides students with an understanding of basic mechanisms through which agents alter environmental, human, and ecosystem health, and the skills needed to evaluate and implement remediation for environmental problems, in the context of engineering and public health.

Coursework

In addition to EGR 710, EGR 711, and EGR 796, course selection is based on the research and career goals of the student, and curricula will vary between students. Students are guided by their faculty mentor (committee chair) and a graduate study committee composed of faculty representing an interdisciplinary team in the student’s area of research interest. The coursework must include courses from at least two disciplines.

This work will be completed under the guidance of the student’s faculty mentor (graduate study committee chair). An approved 6 hour internship may be substituted for 6 of the required dissertation research hours. Non-dissertation Research and Dissertation Research hours will be taken through the department of the student’s faculty mentor.

Additional Information

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<th>Deadline for Entry Term(s):</th>
<th>Fall: July 1 · Spring: November 1, Summer: April 1</th>
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<tbody>
<tr>
<td>Deadline for All Application Materials to be in the Graduate School Office:</td>
<td>Six weeks before term begins</td>
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<tr>
<td>Number of Evaluation Forms Required:</td>
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<tr>
<td>Entrance Tests</td>
<td>GRE General Test (TOEFL is also required for international applicants whose native language is not English.)</td>
</tr>
</tbody>
</table>

Contacts:

Dr. David Littlefield
Graduate Program Director
Professor of Mechanical Engineering
littlefield@uab.edu
(205) 934-8460

Mrs. Heather Creel
Business Officer I
Department of Mechanical Engineering
hcreel@uab.edu
(205) 996-2669 or (205) 934-8460

Leonardo Art & Engineering Graduate Certificate

Contacts

David Littlefield, PhD
Professor and Chairman
littlefield@uab.edu
Department of Mechanical Engineering
BEC 257
1150 10th Avenue South
Birmingham, AL 35294-4461
(205) 934-8460

Heather Creel
Business Officer I
hcreel@uab.edu
Department of Mechanical Engineering
BEC 257
1150 10th Avenue South
Birmingham, AL 35294-4461
(205) 934-8460

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Program Description

Leonardo da Vinci is recognized as embodying the concept of the Renaissance Man as he was a painter, sculptor, architect, musician, scientist, mathematician, engineer, and inventor - an accomplished artist of the 16th century and a perfect example of interdisciplinary endeavors.

In this spirit of the Renaissance Person, the Departments of Mechanical Engineering and Art & Art History bring their collective expertise and
experience together to offer a new interdisciplinary Category A certificate program involving an integrated art and engineering curriculum.

The Leonardo Art & Engineering program crosses traditional boundaries between academic disciplines and forges new collaborations to create a scholar/scientist/artist ready to meet the demands of the 21st century.

The objectives for the program are to:

- Provide cross-disciplinary training in simulation, art, visualization, and virtual reality to students with a BS/BA degree in Arts and Sciences, Engineering, Business, or Healthcare-related disciplines for addressing marketing, education/training, entertainment, product development, and design application demands of the 21st century growth area in 3D and VR technologies.
- Offer a mechanism for the large number of practicing artists, engineers, healthcare professionals, business managers, and game developers in Alabama and Birmingham to acquire additional training and education in simulation, 3D visualization, and VR.
- Provide a specialized education suitable to the needs of in-state, out-of-state, and international students interested in the application of 3D visualization, VR, and simulation to the industry or business segment of their preference. The program will provide the students with highly specialized and marketable skills.

Program Requirements

- Students must be admitted to either Department in either the undergraduate or graduate program or to the UAB Graduate School as a non-degree seeking student. (Undergraduates may begin work on the certificate in their senior year provided they have satisfied prerequisite requirements and obtained approval from the Graduate School to take graduate level courses. A certificate can only be awarded after completion of the BA or BS degree requirements.)
- Students must be admitted to the Leonardo Art & Engineering Certificate program using the degree-seeking application found on the UAB Graduate School Apply Yourself website.
- Certificate requires a minimum of 18 semester hours.
- Relevant courses taken towards the certificate may be applied to the MS degree offered by the Department of Mechanical Engineering or MA degree offered by the Department of Art & Art History.
  - One course, up to three semester hours, may be transferred from another institution. This may be the required course or one of the graduate level courses.
- Courses taken from UA and UAH by IITS may be applied to certificates

Course Requirements

Total of 18 credit hours, as follows:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 521 Introduction to Computational Fluid Dynamics Basics</td>
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<tr>
<td>or ME 564 Introduction to Finite Element Method</td>
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<tr>
<td>ME 698 Non-Thesis Research</td>
<td>1-12</td>
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<tr>
<td>ARS 660 New Media-Special Topics</td>
<td>3</td>
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<td>ARS 661 Survey of Animation</td>
<td>3</td>
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<td>ARS 662 Fabrication Laboratory</td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>13-24</strong></td>
</tr>
</tbody>
</table>

Professional Degree Programs

In an effort to meet increasing industry demands for highly skilled workers, the School of Engineering offers a variety of professional programs. These programs are designed to benefit working professionals who seek to increase their qualifications through specialized degree and certificate programs. The following three tracks are available in the Master of Engineering (MEng): Construction Engineering Management; Advanced Safety Engineering and Management; and Information Engineering and Management.

Advanced Safety Engineering and Management

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Note that this program is totally online.

| Web site: | http://www.uab.edu/asem |
| Degree Offered: | MEng |
| Director: | Martha W. Bidez |
| E-mail: | mbidez@uab.edu |
| Program Manager | Randy Cadieux |
| Phone: | (205) 480-9759 |
| E-mail | rcadieux@uab.edu |

Instructors

The MEng-ASEM graduate program is taught by a team of practicing safety and health professionals with Dr. Martha Bidez serving as overall Course Master. Practitioner-Scholars facilitate online discussions on key topics of interest in their industry sector and provide industry-specific case studies. Students participate in peer-to-peer learning activities discussing current topics of interest and real world experiences using online discussion boards.

ASEM Admission Requirements

Admission to the UAB MEng-ASEM program requires the following:

- An undergraduate degree with a minimum 3.0 GPA from a regionally accredited school and a minimum of five years of professional work experience as evidenced by resume and recommendations.
- Undergraduate degree does not have to be in engineering.
- One of the recommendations must be a self-recommendation and one must be from a current, direct supervisor.
- Applicants not satisfying the grade point average requirement and/or holding a degree from a nationally accredited school may receive admission on a provisional basis, subject to assessment and recommendation of the program director.

To apply, go to Apply Yourself and complete and submit your online application.

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<tr>
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<tr>
<td>ASEM 610 Introduction to System Safety - Prevention through Design</td>
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</tr>
<tr>
<td>ASEM 611 Hazard Analysis and Waste Elimination</td>
<td>3</td>
</tr>
<tr>
<td>ASEM 612 Engineering Risk</td>
<td>3</td>
</tr>
</tbody>
</table>
ASEM 613  Human Performance and Engineering Design  3
ASEM 614  Engineering Ethics and Acceptable Risk  3
ASEM 615  Leading through Climates of Change  3
ASEM 616  Policy Issues in Prevention through Design  3
ASEM 617  Crisis Leadership and Safety-Critical Design  3
ASEM 628  Electrical Systems Safety  3
ASEM 619  Capstone Project - Part 1  3
ASEM 620  Capstone Project - Part 2  3
ASEM 601  ASEM Seminar  0

Additional Information

Comments: The ASEM program is totally online. There are no campus classes, meetings, or activities. Course delivery includes asynchronous and synchronous learning modes.

Entrance Tests: None

Number of Recommendations Required: Three (including self-recommendation and recommendation from your current, direct supervisor)

Deadline for All Application Materials to be in the Graduate School Office: Six weeks before term begins (see UAB academic calendar - https://www.uab.edu/students/academics/academic-calendar)

Application Submission Deadline for Entry Term(s): Fall: July 1; Spring: November 1; Summer: April 1

For detailed information, contact:
Dianne Gilmer, MEng
Hoehn 310, 1075 13th Street South, Birmingham, Alabama 35294-4440
Telephone: 205-480-9759
E-mail: digilmer@uab.edu
Web: http://www.uab.edu/engineering/cem

Construction Engineering Management

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School

Degree Offered: M.Eng.
Director: Wilbur Hitchcock
Phone: (205) 504-1386
E-mail: wah@uab.edu
Web site: http://www.uab.edu/engineering/cem/

CEM Admission Requirements

Admission to the UAB CEM requires
1. Bachelors degree from a regionally accredited U.S. College or University
2. Personal interview with Program Director and Assistant Director
3. Two letters of recommendation

4. NO GRE REQUIRED if requirement number 1 is met.

To apply:
Go to Apply Yourself for the UAB Graduate School and fill out application.

- Should complete a Graduate Application. The link to apply is: https://www.uab.edu/graduate/
- Before submitting your application, please contact Dianne Gilmer at 205-975-5848 or digilmer@uab.edu to schedule an admissions interview. The interview usually takes 30 to 45 minutes and can be held over the phone or Skype.
- Use the area on the left and choose “Application for Admission as a Degree-Seeking Student”.
- Under the link Application Information and the option Program Applying to: choose Construction Engineering Management. Under Additional Information you will be asked to upload a resume.

Information Engineering and Management

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.Eng.
Director: Dr. Dale W. Callahan, PE
Phone: (205) 934-8480
IEM Admission Requirements

Admission to UAB Information Engineering and Management requires:

1. An undergraduate degree from a regionally accredited university.
2. Preference is given to engineering, math, science or technical-related undergraduate degrees.
3. Original transcripts from every college/university attended should be requested by the applicant and sent directly to the UAB Graduate School.
4. Relevant industry work experience as evidenced by your resume and three recommendations.
5. An essay answering the questions listed on the IEM website Apply Now page.
6. A video introducing yourself to IEM. The video should be less than 5 minutes in length. Please tell us a little about yourself, what you’ve done professionally and why you want to be admitted to IEM. The video should be posted to YouTube, marked unlisted with a limited access URL and the link emailed to iem@uab.edu.
7. An interview with the IEM admissions committee may also be required.
8. No GMAT/GRE required for admission to IEM.

To Apply:

Whether you are on campus or online, or some of both, here is what all entering clients need to do:

Go to Apply Yourself for the UAB Graduate School and fill out an application.

- Choose “Application for Admission as a Degree-Seeking Student”.
- Under the link Application Information, you will be asked to select the Program Applying to: select Information Engineering and Management.
- Complete the following:
  - biographical data
  - application information - No GMAT/GRE required for admission so select “waived”
  - educational background (list all schools attended, even if you did not graduate from that institution)
  - Names and e-mail addresses for 3 references - the system will send an electronic request to each reference
  - Upload an essay addressing questions listed above
  - Additional Information - upload a current resume
- Provide payment for application (enter credit card or mail a check for application fee) and submit application.
- IEM Requirements: The photograph and video link should be e-mailed to IEM directly at iem@uab.edu. (iem@uab.edu)
- We encourage applicants to complete their application early to make sure they are considered for admission as soon as possible.

A complete application means that all materials (transcripts, essay, resume, etc.) have been received by the Graduate School and the video should be uploaded to YouTube.
- Acceptance is determined by the IEM Admissions Committee.

Late Applicants

Applicants who miss the Graduate School’s deadline for admission may apply as “non-degree seeking” in Apply Yourself and pay an additional application fee. Late applicants are still required to submit the paperwork outlined above. The non-degree seeking deadline is typically 2-4 weeks before classes begin.

Additional Information

| Number of Recommendations Required: | Three |
| Entrance Tests: | N/A |

For more information, contact IEM Director-Dr. Dale Callahan, PE or IEM Program Manager-Maria Whitmire, MEng, CAP-OM; IEM, Hoehn 370, 1075 13th Street South, Birmingham, Alabama 35294-4440.
Telephone: 205-934-8480
E-mail: iem@uab.edu
Web: www.uab.edu/iem

Information Engineering and Management Courses – IEM

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEM 601 Introduction to IEM</td>
<td>1</td>
</tr>
<tr>
<td>IEM 602 Leading Collaborative Teams</td>
<td>1</td>
</tr>
<tr>
<td>IEM 603 Communication for Technology Executives</td>
<td>1</td>
</tr>
<tr>
<td>IEM 610 Communication for Technology Professionals</td>
<td>3</td>
</tr>
<tr>
<td>IEM 611 Leading Technical Organizations</td>
<td>3</td>
</tr>
<tr>
<td>IEM 612 Project Leadership</td>
<td>3</td>
</tr>
<tr>
<td>IEM 620 Technical Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>IEM 625 Technology and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>IEM 630 Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IEM 631 Operational Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>IEM 645 Financial Concepts for Entrepreneurs</td>
<td>3</td>
</tr>
<tr>
<td>IEM 646 Strategic Planning</td>
<td>3</td>
</tr>
<tr>
<td>IEM 690 Special Topics in Area</td>
<td>1-3</td>
</tr>
<tr>
<td>IEM 695 IEM Design Project</td>
<td>3</td>
</tr>
<tr>
<td>IEM 696 IEM Internship</td>
<td>1-3</td>
</tr>
</tbody>
</table>

1 Seminar course registration (IEM 601, IEM 602, or IEM 603) is required every Fall and Spring semester, except the semester of graduation. Multiple registrations of IEM 602 and IEM 603 are allowed.

2 This is an elective course and does not apply to required coursework for degree.

Design and Commercialization

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Web site: http://www.uab.edu/engineering/home/d-c
Biomedical Engineering

Degree Offered: MEng
Director: Alan W. Eberhardt
E-mail: aeberhar@uab.edu
Program Manager: Julie Calma
Phone: (205) 996-0165
E-mail: jcalma@uab.edu

Admission Requirements
Admission to the UAB MEDC requires the following:

- An undergraduate degree with a minimum 3.0 GPA from a regionally accredited school.
- Undergraduate degree does not have to be in engineering.
- Minimum GRE scores of 150.
- Three letters of recommendation

To apply, go to Apply Yourself and complete and submit your online application.

Master of Engineering in Design and Commercialization

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 630</td>
<td>Engineering Design and Commercialization</td>
<td>3</td>
</tr>
<tr>
<td>EE 605</td>
<td>Embedded Systems for Industrial Scholars</td>
<td>3</td>
</tr>
<tr>
<td>ME 677</td>
<td>Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGR 693</td>
<td>Innovation-Commercialization Project 1</td>
<td>2</td>
</tr>
<tr>
<td>EGR 694</td>
<td>Innovation-Commercialization Project II</td>
<td>3</td>
</tr>
<tr>
<td>EGR 695</td>
<td>Innovation-Commercialization Project III</td>
<td>3</td>
</tr>
<tr>
<td>EGR 696</td>
<td>Internship in Design and Commercialization</td>
<td>3</td>
</tr>
<tr>
<td>MSE 610</td>
<td>Advanced Materials, Manufacturing and Applications Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Business Coursework

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 681</td>
<td>From Idea to IPO</td>
<td>3</td>
</tr>
<tr>
<td>MBA 690</td>
<td>Directed Study</td>
<td>3</td>
</tr>
<tr>
<td>MBA 673</td>
<td>Planning and Pitching a New Business Concept</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 32

Additional Information
For additional program information, please contact:

Julie D. Calma
Office Services Specialist III
Biomedical Engineering
The University of Alabama at Birmingham
HOEN 361, 1075 13th Street South
Birmingham, AL 35294
P: (205) 996-0165
jcalma@uab.edu

Biomedical Engineering

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Biomedical Engineering (Ph.D., M.S.B.M.E., M.S.B.M.E. with Certificate in Technology Commercialization and Entrepreneurship)

Degrees Offered: Ph.D., M.S.B.M.E., M.S.B.M.E. with Certificate in Life Sciences Entrepreneurship
Phone: (205) 996-6936
E-mail: uabbgemgrad@uab.edu
Web Site: www.uab.edu/bme

Program Information

M.S.B.M.E. Program

The Master of Science in Biomedical Engineering (BME) prepares students for entry into the doctoral program, biomedical industry, or professional school. Primary research areas are biomedical imaging, biomedical implants and devices, cardiac electrophysiology, multiscale computational modeling, tissue engineering and regenerative medicine. Other research opportunities are available through our on-going collaborations with the UAB Medical and Dental Schools. With the terminal degree, employment is usually found in health-care delivery, medical devices, pharmaceuticals, biomedical imaging, instrumentation, medical sales and marketing, regulatory agencies, or computer application groups.

For admission to the program, a student should have earned a bachelor's degree in biomedical engineering, engineering or a closely-related field.

Students with undergraduate degrees in the physical sciences, life sciences, or mathematics will also be considered for admission; however, such students may be required to demonstrate competence in engineering areas usually found in an undergraduate engineering curriculum. In some cases, preparatory courses in mathematics, engineering or life sciences may be required, with specific recommendations made by the BME Graduate Program Committee. Admission to the BME Master’s program is competitive, and successful applicants will usually present scores of at least 156 on the verbal and at least 159 on the quantitative sections of the GRE General Test. Typical students have an undergraduate GPA of 3.5 or greater and have participated in at least one research project while an undergraduate (e.g., honors research, summer research experience, laboratory research, senior design, internship).

The BME Graduate Program offers Plan I (thesis-based) M.S. degree that requires completion of at least 30 semester hours of appropriate graduate work, public presentation and defense of a written thesis embodying the results of student’s research, and publication or submission of at least one original research article in a peer-reviewed journal in which the student is expected to be the first author. For each student an individualized curriculum is developed to ensure that the student obtains in-depth knowledge of both quantitative methods and human physiology necessary to succeed in completion of the student’s thesis research. All students are required to take BME 517 Engineering Analysis, BME 670 Quantitative Physiology, BST 621 Statistical Methods I and three one-hour departmental seminar courses (BME 601). Additional course work includes graduate-level life sciences and bioengineering courses selected in consultation with student's thesis advisor and approved by the BME Graduate Program Committee. Students must complete at least six of BME 699 (thesis research).
In addition to the M.S.B.M.E. degree, BME now offers a Master's in Biomedical Engineering with a Certificate in Technology Commercialization and Entrepreneurship. This represents a unique graduate training program featuring collaboration between BME and the UAB School of Business. Biomedical engineering principles are blended with business-model planning in an effort to equip students to not only become scientists and researchers, but also capable business professionals. BME students partner with Business students pursuing an M.B.A. to turn biomedical devices into commercial successes that are marketed worldwide. They will participate in the Invention to Innovation (i2i) activities, in which they will pitch their start-up companies and enter business plan competition with the Alabama Launchpad (http://www.alabamalaunchpad.com/). In addition to the BME course and thesis requirements, students in the M.S.B.M.E. with a Certificate in Life Sciences Entrepreneurship will take 12 credit hours of M.B.A. coursework, including MBA 681: Idea to IPO (offered fall); MBA 673: Technology-based Venture Planning (offered spring); and MBA 690: (offered as Managing Innovation in summer term). Choose one* from MBA 691: Independent Study or ENT 526 Practicum in Commercialization. *Other related courses may be approved by Certificate Program Director.

**Ph.D. Program**

The Ph.D. degree prepares students for careers in industry and academics. Students entering the doctoral program will possess a B.S., M.S., or be currently enrolled in the D.M.D./Ph.D. or M.D./Ph.D. program at UAB.

Admission to the Ph.D. program is competitive, and successful applicants will usually present scores of at least 156 on the verbal and at least 159 on the quantitative sections of the GRE General Test. Typical students have a graduate GPA of 3.5 or greater and have a significant research experience. Students admitted to the doctoral program typically receive a competitive stipend that usually includes payment of tuition.

Students can be admitted to the Ph.D. Program with a B.S. degree in a field of biomedical engineering or closely-related discipline. Students with undergraduate degrees in the physical sciences, life sciences, or mathematics can also be considered to admission. Students entering the Ph.D. program with a B.S. are required to complete at least 72 semester hours of graduate work, including 48 semester hours of graduate course work, and a minimum of 24 hours of dissertation research (BME 799) earned over at least two semesters in candidacy. All students are required to take BME 517 Engineering Analysis, BME 770 Quantitative Physiology, BST 621 Statistical Methods I, if not taken as part of their master's program, and three semesters of BME 701 BME Seminar. The remaining course work should be a combination of life sciences, biomedical engineering, or mathematics elective courses that provide sufficient breadth and depth to gain the necessary graduate level, interdisciplinary knowledge to complete dissertation research. A total of three first-author original research articles in peer-reviewed journals based on the student's dissertation research are required for completion of the Ph.D. in the BME Department. If one article was published as part of the M.S.B.M.E. degree, then two articles are required for the Ph.D. degree.

**Additional Information**

<table>
<thead>
<tr>
<th>Deadline for Entry Term(s):</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline for All Application</td>
<td>January 15</td>
</tr>
<tr>
<td>Materials to be in the Graduate School Office:</td>
<td>Three</td>
</tr>
<tr>
<td>Number of Evaluation Forms Required:</td>
<td>GRE (TOEFL is also required for international applicants whose native language is not English)</td>
</tr>
<tr>
<td>Entrance Tests</td>
<td>Students are rarely admitted for the Spring term</td>
</tr>
<tr>
<td>Comments</td>
<td>For detailed information, contact Dr. Vladimir Fast, Professor, BME Graduate Program Director, 1670 University Blvd., Volker Hall B126, Birmingham, AL 35294-0019.</td>
</tr>
<tr>
<td>Telephone</td>
<td>(205) 996-6936</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:uabbmegrads@uab.edu">uabbmegrads@uab.edu</a></td>
</tr>
<tr>
<td>Web</td>
<td><a href="http://www.uab.edu/bme">www.uab.edu/bme</a></td>
</tr>
</tbody>
</table>

**Civil, Construction and Environmental**

The Civil, Construction, and Environmental Engineering (CCEE) department offers both a master and doctoral level program, and cutting-edge research covering various facets of Civil Engineering theory and practice. A knowledgeable and experienced group of faculty members work closely with students to provide them with the tools required to succeed professionally in globally-competitive work environments.

**Civil Engineering**

| Degree Offered: | M.S.C.E., M..Eng., Ph.D. |
| Director: | Dr. Robert W. Peters |
| Phone: | (205) 934-8430 |
| Fax: | (205) 934-9855 |
| E-mail: | rwpeters@uab.edu |
| Web site: | http://www.uab.edu/engineering/ |

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.
Admission Requirements
In addition to the UAB Graduate School admission requirements, requirements for admission to the program leading to the Master of Science in Civil Engineering degree include the following five criteria:

1. An undergraduate engineering degree from an accredited program by the ABET. Applicants who do not meet this criterion but who have an outstanding academic record in an engineering degree program not accredited by ABET, or in a baccalaureate degree program in a related field, may be admitted on probation. Students admitted in this category will be required to complete a sequence of undergraduate courses in addition to the normal requirements of the M.S.C.E. degree. This set of extra requirements will be specified in writing at the time of admission to the program.

2. GPA of 3.0 or better (A = 4.0) in all undergraduate degree major courses attempted;

3. Three letters of evaluation concerning the applicant's previous academic and professional work; and

4. Submission of scores achieved on the GRE General Test. Admission to the program is competitive and is based on all available evidence; for admission in good academic standing, scores above 160 on each component of GRE General Test are preferred. Minimum scores of 550 on the Test of English as a Foreign Language (TOEFL) and a 3.5 on the Test of Written English (TWE) are also required for those applicants whose native language is not English. These test scores will be used primarily if an applicant fails to meet minimum standards for admission in good standing and is being considered for admission on probation.

5. Verification of registration by examination as a Professional Engineer (P.E.) will satisfy criteria 4 above.

M.S.C.E. Program Requirements
The following minimum requirements apply to the plan of study for a student who has earned a baccalaureate degree in civil engineering. A student with an undergraduate degree in another field may also be accepted into the civil engineering program but will normally have to take additional preparatory coursework as part of an expanded plan of study. Continuous enrollment for at least 3 credit hours per term is required. Students receiving a research assistantship are required to be enrolled as full-time students every semester. A full-time student is one who is enrolled in at least 9 credit hours per semester. Enrollment in the Civil Engineering Graduate Seminar series (CE 641 / CE 741) is required at least once prior to graduation.

Plan I (Thesis Option)
1. In addition to the general Graduate School requirements, the student must successfully complete at least 33 semester hours of graduate credit, including:

   a) A minimum of 18 semester hours in civil engineering;

   b) Up to 6 semester hours in disciplines outside civil engineering, such as other engineering disciplines, mathematics, biology, earth science, physics, urban affairs, or public health.

   c) A minimum of 9 hours of CE 699 - Masters Thesis Research.

2. The student must pass a comprehensive examination on the content of the program. This examination may be written, oral, or both and shall include an oral defense of a thesis.

Plan II (Nonthesis Option): Research/Design Emphasis
1. The student must successfully complete at least 33 semester hours of graduate credit including:

   a) A minimum of 24 semester hours in civil engineering;

   b) Up to 6 semester hours in disciplines outside civil engineering, such as; other engineering disciplines, mathematics, biology, earth sciences, physics, chemistry, or public health; and

   c) A minimum of 3 hours of CE 698 – Nonthesis Research under the direction of the graduate study committee chair, resulting in a committee approved written report.

2. The student must pass a comprehensive examination on the content of the program. This examination may be written, oral, or both and shall include an oral defense of the nonthesis research project.

Areas of Specialization
Specialization programs are available in the fields of environmental engineering, structural engineering/structural mechanics, construction engineering management; and transportation engineering. Supporting courses are offered in geotechnical engineering, optimization, engineering law and other areas. Enrollment in the Civil Engineering Graduate Seminar series (CE 641 / CE 741) is required of all graduate students at least once prior to graduation.

Required Courses for Specialization in Environmental Engineering
In addition to the M.S.C.E. program requirements, the following undergraduate classes, or Program Director approved course equivalents (plus all associated prerequisites) are generally required of all M.S.C.E. students specializing in environmental engineering:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 236</td>
<td>Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 337</td>
<td>Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CE 344</td>
<td>Civil Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 430</td>
<td>Water Supply/Drainage Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 480</td>
<td>Introduction to Water and Wastewater Treatment</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses for Specialization in Structural Engineering/Structural Mechanics
In addition to the M.S.C.E. program requirements, the following undergraduate classes, or Program Director approved course equivalents (plus all associated prerequisites) are generally required of all M.S.C.E. students specializing in structural engineering/structural mechanics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 332</td>
<td>Soil Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CE 344</td>
<td>Civil Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 360</td>
<td>Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CE 450</td>
<td>Structural Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 455</td>
<td>Reinforced Concrete Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses for Specialization in Construction Engineering Management
In addition to the M.S.C.E. program requirements, the following undergraduate classes, or Program Director approved course equivalents
(plus all associated prerequisites) are generally required of all M.S.C.E. students specializing in construction management.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 395 Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>CE 497 Construction Engineering Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses for Specialization in Transportation Engineering**

In addition to the M.S.C.E. program requirements, the following undergraduate classes, or Program Director approved course equivalents (plus all associated prerequisites) are generally required of all M.S.C.E. students specializing in transportation engineering.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 344 Civil Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 345 Transportation Engineering</td>
<td>3</td>
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</tbody>
</table>

**Ph.D. Program Requirements**

This is a joint program with the University of Alabama in Huntsville (UAH). A typical student entering the program would already have an undergraduate degree in Civil Engineering from an ABET accredited program. Students with outstanding records in related fields or from a non-accredited engineering program will be considered for admission on conditional standing, and must remedy deficiencies in their preparation after the start of their academic program. They may then be granted unconditional standing in the doctoral program.

The program requires 48 credit hours of coursework beyond the baccalaureate level or 24 credit hours of coursework beyond the master’s degree, plus a minimum of 24 credit hours of dissertation research. **Enrollment in the Civil Engineering Graduate Seminar (CE 741) at least once prior to graduation is required.** A minimum of 6 credit hours must be taken from the UAH campus, and may be taken through the Intercampus Interactive Telecommunications (IITS) System at UAB, Distance Learning courses from UAH (DL) or Web-based Instruction from UAH.

A comprehensive examination is required of all doctoral candidates. This examination is given after (a) all coursework is completed, and (b) the student’s Graduate Committee, which consists of faculty representatives from both campuses, deems the student to have adequate preparation in the major and minor fields of study. The examination is conducted by the student’s Graduate Committee and administered on the resident campus. The examination consists of a written part and an oral part. During the oral portion of the examination, the student also presents his/her dissertation proposal. The Comprehensive Examination may only be taken twice.

For additional details, please refer to the CCEE website: http://www.uab.edu/engineering/

**CE Specialty Certificate Programs**

Category A certificates are offered by the Civil, Construction, and Environmental Engineering Department. Any undergraduate or graduate student in good standing who is pursuing a Civil Engineering degree (B.S.C.E., M.S.C.E., Ph.D.) may elect to simultaneously complete the requirements of his or her degree program and the Certificate Program. These certificates are listed on student transcripts and in the university graduation bulletin. Certificates can be earned in:

1. Construction Engineering Management
2. Sustainable Engineering Management
3. Structural Engineering
4. Environmental Engineering
5. Transportation Engineering
6. Geotechnical Engineering

Civil Engineering (B.S.C.E.) graduates who complete the Certificate Program will have greater depth in specific technical area. The certificates also allow a means for practicing engineers to acquire expertise beyond a Bachelor degree, and have it formally recognized, without completing a program leading to a master’s degree. This technical expertise will enhance their proficiency and marketability. Up to 12 graduate level credit hours taken for a certificate may be applied toward the M.S.C.E. degree.

Students who wish to pursue a CE Certificate must be admitted to the Department as either undergraduate or graduate students (B.S.C.E. or M.S.C.E. program). Students who are not currently enrolled in the civil engineering program may be admitted as a non-degree seeking student to earn a Certificate.

Certificates require a minimum of 15 semester hours. They consist of one required course (which may also count toward the B.S.C.E. degree at UAB) and four graduate level elective courses in the area of specialization. Courses that can be applied towards the Certificate can be found at http://www.uab.edu/engineering/home/departments-research/civil

For more information, please contact Jennifer A. Vinson, Administrative Associate, 140 Hoehn Engineering Building, 1075 13th Street South, telephone (205) 934-8430, e-mail jav@uab.edu

**Master in Engineering Programs**

The Department of Civil, Construction, and Environmental Engineering is pleased to offer two tracks under the Master in Engineering

**Construction Management Program Requirements**

This program is designed to enhance the engineering and business qualifications of working professionals interested in project and company management.

In addition to the Graduate School admission requirements, requirements for admission to the program leading to the Master in Engineering – Construction Management degree include the following:
1. Must have a Bachelor's degree from an accredited U.S. College or University;
2. Must have an Undergraduate GPA of 3.0 or higher (individuals not meeting this requirement may start on a probationary status with strong interview and recommendations);
3. No GRE required for U.S. Citizens;
4. Must submit at least two letters of recommendation
5. Must schedule an interview with the Program director or coordinator.
6. Students must successfully complete at least 30 semester hours of graduate credit.

Structural Engineering Program Requirements

This program is designed to increase the technical knowledge of engineering professionals working in, or desiring to work in, the broad field of structural engineering.

In addition to the Graduate School admission requirements, requirements for admission to the program leading to the Master of Engineering – Structural Engineering degree include the following:

1. Must have an engineering Bachelor's degree from an ABET accredited U.S. College or University;
   1. Must have an Undergraduate GPA of 3.0 or higher (individuals not meeting this requirement may start on a probationary status with strong interview and recommendations);
   2. No GRE required for U.S. Citizens;
   3. Must submit at least two letters of recommendation;
   4. Must schedule an interview with the Program Director or Coordinator, and
   5. Student must successfully complete at least 30 semester hours of graduate credit.

SUSTAINABLE SMART CITIES PROGRAM REQUIREMENTS

In addition to the Graduate School admission requirements, requirements for admission to the program leading to the Master of Engineering – Sustainable Smart Cities degree include the following:

1. A Bachelor’s degree (or equivalent) from an recognized institution of higher education in an appropriate subject / related science including but not limited to: Urban Design and Planning, Political Science, Geography, Environmental Science, Environmental Management, Public Health, Social Sciences, Criminal Justice, Information and Communication Technology, and/or Engineering.
2. Candidates who have related employment or substantial industrial experience, with a demonstrable interest in or a commitment to urban planning, sustainability and environmental management issues and / or smart city approaches will also be considered.
3. International students who do not have a degree from an accredited U.S. institution are required to submit TOEFL scores.
4. All program students will be required to register / enroll at both UAB and SU. Details on the Graduate application packet are available online.

Electrical and Computer Engineering

Electrical and Computer Engineering

Chair: Murat M. Tanik, Ph.D.

The Department of Electrical and Computer Engineering offers a Master of Science in Electrical Engineering (M.S.E.E) degree and a Ph.D. in Computer Engineering shared with the UAH Electrical and Computer Engineering Department.

Electrical Engineering (p. 104)
Computer Engineering (p. 105)

Electrical Engineering

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>M.S.E.E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director:</td>
<td>Karthikeyan Lingasubramanian</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-8440</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:klinga@uab.edu">klinga@uab.edu</a></td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="http://www.uab.edu/engineering/ece/graduate">http://www.uab.edu/engineering/ece/graduate</a></td>
</tr>
</tbody>
</table>

Program Information

The Master of Science in Electrical Engineering (M.S.E.E.) prepares students for a professional career in industry or entry into a doctoral program or professional school. Th M.S.E.E. program builds upon the broad foundation provided by a Bachelor of Science in Electrical Engineering by supplying depth in specific area of electrical and computer engineering through advanced coursework and a thesis or project experience.

Admission Requirements

Requirements for admission to the electrical engineering master's degree program include the following:

1. A bachelor's degree in electrical or computer engineering.
2. A 3.0 (A = 4.0) or better GPA in all junior and senior electrical and computer engineering and mathematics courses attempted;
3. Three letters of evaluation concerning the applicant's previous academic and professional work; and
4. An acceptable score on the GRE General Test and the TOEFL, if applicable.

Financial Support

Limited financial assistance may be available for well-qualified students admitted into the M.S.E.E. program. In order to be considered for financial aid for the coming academic year, the completed application materials must usually be received at UAB by April 1.
There are a number of minority fellowships available through the Graduate School. Contact the UAB Graduate School directly for further information.

**Program Requirements**

Assuming that a student possesses appropriate academic preparation for this degree, 33 semester hours of course work will be required beyond the bachelor's degree. This work must be distributed as follows:

**Plan I (Thesis Option)**

1. Twelve semester hours of graduate-level courses appropriate to the student's area of technical specialization
2. Six semester hours of graduate-level courses in an area related to the student's area of technical specialization; and
3. Six semester hours of courses having a mathematical emphasis; and
4. Successful completion and oral defense of a thesis developed through registration for at least nine semester hours of EE 699.

**Plan II (Nonthesis Option)**

1. Twelve semester hours of graduate-level courses appropriate to the student's area of technical specialization;
2. Twelve semester hours of graduate-level courses in an area related to the student's area of professional emphasis (these courses may address technical subjects or subject matter appropriate to an emphasis in engineering management or entrepreneurship);
3. Six semester hours of courses having a mathematical emphasis;
4. Successful completion of a project developed through registration for at least 3 semester hours of EE 697.

**Additional Information**

Deadline for Entry Term(s): Deadline for Entry Term(s):
Deadline for All Application Materials to be in the Graduate School Office: Six weeks before term begins
Number of Evaluation Forms Required: Three

**Entrance Tests**
GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

**Comments**
GRE and evaluation forms requirements waived for persons holding registration as professional engineers

**Computer Engineering**

**Computer Engineering**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**Degree Offered:** Ph.D.
**Director:** Dr. Karthikeyan Lingasubramanian
**Phone:** (205) 934-8440
**E-mail:** linga@uab.edu

Web site: http://www.uab.edu/engineering/home/about-ece

**Program Information**

The Ph.D. degree prepares students for professional and research careers in industry and academia. The Ph.D. in Computer Engineering is awarded by UAB and is offered through a program shared with the University of Alabama in Huntsville (UAH), allowing both UAB and UAH to contribute to the program.

**Admission Requirements**

Requirements for admission to the Ph.D. program include the following:

1. A bachelor's degree in an accredited electrical or computer engineering program or a bachelor's degree in a related program acceptable to the graduate faculty in Electrical and Computer Engineering;
2. A score of at least 550 on the verbal and quantitative sections of the Graduate Record Examination (GRE);
3. An acceptable score on the TOEFL examination for international students whose native language is not English;
4. An overall GPA of at least 3.0 on a 4.0 point scale, or at least 3.0 for the last 60 semester hours completed; and
5. Three letters of evaluation concerning the applicant's previous academic and professional work.

Students not having a bachelor's degree in electrical or computer engineering may be required to complete prerequisite courses.

**Financial Support**

Fellowships and/or assistantships may be available for well-qualified students admitted into the PhD program. In order to be considered for financial aid for the coming academic year, the completed application materials must usually be received at UAB by April 1.

There are a number of minority fellowships available through the Graduate School. Contact the UAB Graduate School directly for further information.

**Program Requirements**

The course of study leading to the Ph.D. includes a minimum of 48 semester hours of course work beyond the bachelor's degree (excluding dissertation research). A student's advisory committee may allow appropriate course work pursued in completing a master's degree to be counted towards the 48 hour course work requirement, but a maximum of nine semester hours credit in thesis/research work from the master's degree may be allowed to count toward the 48 hour course work requirement for the Ph.D. Requirements include the following:

1. A major consisting of a minimum of 18 semester hours of approved coursework in computer engineering;
2. A minor consisting of a minimum of 12 semester hours of approved coursework in mathematics, theoretical or formal methods as related to computer engineering;
3. A minor consisting of a minimum of 12 semester hours of approved coursework in electrical or computer engineering;
4. Additional coursework consisting of a minimum of 6 semester hours of approved coursework in supportive fields;
5. Successful completion of a preliminary examination;
6. Successful completion of a qualifying examination that includes a presentation of the dissertation research proposal. Successful completion of the qualifying examination leads to admission to candidacy;
7. Successful completion of a minimum of 18 semester hours in EE 799 Dissertation Research; and
8. Successful completion of a final examination on the dissertation.

**Additional Information**

**Deadline for Entry Term(s):** Each semester

**Deadline for All Application Materials to be in the Graduate School Office:** Six weeks before term begins

**Number of Evaluation Forms Required:** Three

**Entrance Tests**

- GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact Dr. Karthikeyan Lingasubramanian, Graduate Program Director UAB Department of Electrical and Computer Engineering. BEC 255E 1720 Second Avenue South, Birmingham, Alabama 35294-1170.

Telephone 205-934-8440
E-mail klinga@uab.edu

Web [http://www.uab.edu/engineering/home/departments-research/ece](http://www.uab.edu/engineering/home/departments-research/ece)

**Course Descriptions**

See the graduate catalog of the University of Alabama at Huntsville (UAH) for doctoral courses at that university.

See the listing for the master’s degree in electrical engineering (M.S.E.E.) for courses at the 500 level.

Unless otherwise noted, all courses are for 3 semester hours of credit. Course numbers preceded with an asterisk indicate courses that can be repeated for credit, with stated stipulations.

**Materials Science and Engineering**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Ph.D., M.S.M.E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director:</td>
<td>Dr. Selvum Pillay</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-8450</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:pillay@uab.edu">pillay@uab.edu</a></td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="http://www.eng.uab.edu">www.eng.uab.edu</a></td>
</tr>
</tbody>
</table>

**Admission Requirements**

In addition to the general Graduate School admission requirements, requirements for admission to the M.S.Mt.E. and Ph.D. graduate programs include the following criteria:

1. A 3.0 (A = 4.0) or better GPA on all undergraduate degree major courses attempted
2. MSE evaluates the three scores reported on the GRE revised General Test (as of August 2012):
   - A Verbal Reasoning score reported on a 130-170 score scale, in 1-point increments
   - A Quantitative Reasoning score reported on a 130-170 score scale, in 1-point increments
   - An Analytical Writing score reported on a 0-6 score scale, in half-point increments.

   MSE recommends that a student receive a minimum Quantitative score of 148/170 (600/800 on the old scale); a verbal score of 153/180 (500/800 on the old scale) and a score of 3/6 on the analytical writing

3. TOEFL is an additional requirement for international students. The revised TOEFL scoring scale for an internet based TOEFL test (iBT) is 0-120 which includes:
   - Reading Section (Score of 0-30)
   - Listening Section (Score of 0-30)
   - Speaking Section (Score of 0-30)
   - Writing Section (Score of 0-30)

   MSE requires a minimum TOEFL score of 80-120 (20 in each section) to be considered for admission and financial support. For applicants who report TOEFL scores based on a paper test or a computer test, the scores will be compared to the iBT scale.

**Preparatory Content**

A student seeking a graduate degree in Materials Engineering without a Baccalaureate degree in Materials Engineering or similarly named program accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org, must demonstrate competence at the undergraduate level in the areas of engineering materials, physical behavior of materials, thermodynamics, mechanical behavior of materials. He/she may do this by passing a comprehensive examination on some of the following course content depending on the student's academic background. Students may be exempted from individual courses if they demonstrate that they possess the knowledge from that course. However, the burden of proof is on the student. The decisions are based on a balance between assuring a sufficient background and imposing more extensive testing demands. The courses that fulfill the preparatory requirements are:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 280</td>
<td>Engineering Materials</td>
</tr>
<tr>
<td>MSE 281</td>
<td>Physical Materials I</td>
</tr>
<tr>
<td>MSE 380</td>
<td>Thermodynamics of Materials (Not required if graduate students take MSE 603/703)</td>
</tr>
<tr>
<td>MSE 381</td>
<td>Physical Materials II</td>
</tr>
<tr>
<td>MSE 382</td>
<td>Mechanical Behavior of Materials</td>
</tr>
</tbody>
</table>

**M.S.Mt.E. Program**

The following minimum requirements for a Master of Science in Materials Engineering apply to a student who has earned a baccalaureate degree from a program accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org, in materials or metallurgical engineering or in a similarly named engineering program. A student with an undergraduate degree in another field of engineering or in the physical sciences may also be accepted into the Materials Engineering
program. However, such a student will be required to demonstrate competence in fields of study that emphasize the interrelationship among structure, processing, performance, and properties of materials. This can be accomplished by one of the methods described under “Preparatory Courses.” All full-time master’s students must take MSE 601 Materials Science and Engineering Seminar every term.

Plan I (Thesis Option)
The student must successfully complete at least 24 semester hours of (primarily) materials engineering graduate course work.
- Of these 24 hours, 3 to 6 semester hours will be approved courses in mathematics, physical sciences, another engineering discipline or management (a maximum of 3 hours are allowed in management).
- Up to 9 of the 24 hours may be at the 500 level.
- The student must successfully complete and defend a thesis.
- The student must register for and successfully complete at least 9 semester hours of in addition to the 24 semester hours of course work.

Plan II (Non-thesis Option): Research/Design Emphasis
The student must successfully complete at least 30 semester hours of (primarily) materials engineering graduate course work.
- Of these 30 hours, 3 to 6 semester hours will be approved courses in mathematics, physical sciences, another engineering discipline or management (a maximum of 3 hours are allowed in management).
- Up to 9 of the 30 hours may be at the 500 level.
- The student must complete 3 semester hours of MSE 699 Thesis Research, involving an on-site research project (usually taken after completion of all coursework).
- Successfully complete a written comprehensive examination on all course work taken in the program or a comprehensive examination on the on-site research project topic. The latter option requires a publication-quality manuscript and oral presentation (with questions) deemed acceptable by the graduate committee.

Plan II (Non-thesis Option): Technology/Engineering Management Emphasis
The student must successfully complete at least 30 semester hours of graduate credits.
- 12 semester hours of course work in a specific area of materials science and engineering (at least 6 of these 12 hours must be at the 600 level).
- 6 semester hours of approved management course work.
- 9 semester hours of engineering-oriented management coursework.
- 3 hours of MBA 631 Administrative Theory and Practice.
- The student must also complete 3 semester hours of involving an on-site design or research project (usually undertaken after completion of all course work).
- Successfully complete a written comprehensive examination on all course work taken in the program or a comprehensive examination on the on-site research project topic. The latter option requires a publication-quality manuscript and oral presentation (with questions) deemed acceptable by the graduate committee.

Ph.D. Program
The Ph.D. program in Materials Engineering is offered jointly with the Department of Metallurgical and Materials Engineering at the University of Alabama (Tuscaloosa). All full-time doctoral students must take MSE 701-Materials Science and Engineering Seminar every term.

PhD Track (For students entering with a BS):
The following minimum requirements for a PhD in materials engineering apply to a student who has earned a baccalaureate degree from a program accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org, in materials or metallurgical engineering or in a similarly named engineering program. A student with an undergraduate degree in another field of engineering or in the physical sciences may also be accepted into the Materials Engineering program. However, such a student will be required to demonstrate competence in fields of study that emphasize the interrelationship among structure, processing, performance, and properties of materials. This can be accomplished by one of the methods described under “Preparatory Courses.”

The requirements for a Ph.D. student entering with a BS degree are:
- A minimum of 48 hours of approved graduate course work in metallurgical engineering, materials engineering, or fields supportive of these (15 hours may be at the 500 level and at least 6 semester hours but no more than 12 must be in supportive fields (a maximum of 6 hours can be in management). Additional course work may be required at the discretion of the mentor and program director.
- Successful completion of a written qualifying examination. (Students will receive a Plan II Master’s upon successful completion of the Qualifying Exam and 30 hours of coursework)
- Successful completion of a Dissertation Research Proposal and examination on topics related to the student’s research. (Completion of this step is required for Admission to Candidacy).
- A minimum of 24 semester hours in MSE 799 Dissertation Research.
- Successful defense of a research dissertation in metallurgical/materials engineering.

PhD Track (For students entering with a MS):
This track is for students entering the program with a master’s degree in Materials Engineering or a closely related field.

The requirements for a Ph.D. student entering with a MS degree are:
- A minimum of 24 hours of approved graduate course work in metallurgical engineering, materials engineering, or fields supportive of these (6 hours may be at the 500 level and at least 3 semester hours but no more than 6 must be in supportive fields (a maximum of 3 hours can be in management). Additional course work may be required at the discretion of the mentor and program director.
- Successful completion of a written qualifying examination.
- Successful completion of a Dissertation Research Proposal and examination on topics related to the student’s research. (Completion of this step is required for Admission to Candidacy).
- A minimum of 24 semester hours in MSE 799 Dissertation Research.
- Successful defense of a research dissertation in metallurgical/materials engineering.
Additional Information

Deadline for Entry Term(s): Each semester and summer
Deadline for All Application Materials to be in the Graduate School Office - Fall Semester: March 1st
Deadline for All Application Materials to be in the Graduate School Office - Spring Semester: August 31st
Number of Evaluation Forms Required: Three
Entrance Tests: GRE (TOEFL and TWE also required for international applicants whose native language is not English.)
Comments: *To be considered for funding

For detailed information, contact Dr. Selvum Pillay, Graduate Program Director, The University of Alabama at Birmingham, Department of Materials Science and Engineering, BEC 254, 1150 10th Avenue South, Birmingham, AL 35294-4461.

Telephone 205-934-9199
Web http://www.uab.edu/engineering/home/

Graduate Automotive Technology Education (GATE)

The Graduate Automotive Technology Education (GATE) program is a Department of Energy funded initiative at UAB for advancing the state of the art in lightweight materials and manufacturing technologies for automotive, mass transit and truck. There is increasing emphasis on reducing weight in vehicles as a means to meet stringent Corporate Average Fuel Economy (CAFE) standards. The GATE program recruits graduate students from materials, mechanical, biomedical, civil and interdisciplinary engineering with a GPA of 3.5 or above. The GATE scholars work towards their research on GATE topics and enroll in GATE courses. A GATE certificate of completion is issued by the MSE department upon successful completion of GATE courses. Please visit www.uab.edu for additional information and the application process for the GATE program.

Mechanical Engineering

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.M.E.
Director: David Littlefield
Phone: (205) 934-8460
E-mail: littlefield@uab.edu
Web site: http://www.uab.edu/engineering/home/departments-research/me/graduate

M.S.M.E. Program Requirements

A bachelor's degree from an accredited (or equivalent) program in engineering or the physical sciences is required for admission to graduate study in mechanical engineering. The usual criteria for admission in good standing follows:

- Not less than B-level scholarship overall or over the last 60 semester hours of earned credit; and a minimum of 50th percentile on both quantitative and verbal portions of the GRE General Test. In addition, for foreign nationals, a minimum score of 80 (IBT) on the TOEFL is required. Other standardized examination scores will also be considered. A student not meeting these requirements may also be admitted, perhaps on probationary status, provided other information indicating likely success in the program is provided.

A student with an undergraduate degree in a field of engineering other than mechanical or in the physical sciences may also be accepted into the mechanical engineering program. However, such a student will normally have to take additional, preparatory coursework as part of an expanded plan of study (see "Preparatory Courses" later in this section).

PLAN I (Thesis Option)

1. The student must successfully complete at least 24 semester hours of coursework, including (in addition to the general Graduate School requirements)
   - Six semester hours in committee-approved* mathematics courses
   - Eighteen semester hours in committee-approved* mechanical engineering courses or approved related courses, including at least two semester hours of ME 694 Seminars in Mechanical Engineering and three semester hours in a course outside the student's research or specialization area.

2. The student must register for at least 6 hours of ME 699 Thesis Research in addition to the 24 semester hours of course work.

3. The student must successfully complete and defend a thesis.

* Before the first graduate semester at UAB, the Graduate Coordinator will advise new students regarding courses for the first semester. Before the end of the first semester, students will be assigned a Thesis Director based on research interest, and students will assemble their graduate committee. The committee will consist of the Thesis Director and two graduate faculty members with experience or expertise related to the student's thesis topic. The Thesis Director in coordination with the graduate committee will set the curriculum for the student.

PLAN II (Non-thesis Option): Research/Design Emphasis

Generally, Plan II will be approved for students working full-time and attending UAB on a part-time basis or when the student demonstrates that Plan II offers superior educational benefits. After 15 credit hours of course work are completed, the student should select a project director and begin work on the final project. The election of Plan II must be approved by the student's graduate advisor.

1. The student must successfully complete at least 33 semester hours of coursework, including
   - Six semester hours in approved mathematics courses
   - A minimum of 27 semester hours in approved mechanical engineering courses or approved related courses. Out of these 27 semester hours, students must enroll in:
     - at least three (3) semester hours in a course outside the student's research or specialization area
     - at least two (2) semester hours of ME 694 Seminars in Mechanical Engineering
Additional Information

- at least three (3) hours of ME 698 Non-Thesis Research involving design or research

2. The student must make a presentation on the research project and submit a final report which must be approved by the project director.

**PLAN II (Non-thesis Option): Technology/Engineering Management Emphasis**

1. The student must successfully complete at least 33 semester hours of coursework, including
   - At least three semester hours in approved mathematics courses
   - At least six semester hours in approved mechanical engineering courses
   - At least two semester hours of ME 694 Seminars in Mechanical Engineering
   - At least six semester hours in one of the following two management applications areas: MBA 662 Quantitative Analysis for Business Managers and MBA 631 Management and Organizations and/or MBA 642 Economics for Managers and another approved advanced management course
   - Three semester hours in MBA 631 Management and Organizations Managerial Processes and Behavior
   - At least three semester hours in ME 698 Non-Thesis Research, involving design or research
   - At least nine semester hours of engineering-oriented management coursework.

2. The student must make a presentation on the research project and submit a final report which must be approved by the project director.

**Preparatory Courses**

Students admitted to the graduate program in mechanical engineering without an undergraduate degree in mechanical engineering or who have not had the courses listed below must take the following courses or present equivalent prior coursework. Additional coursework may be required depending on the courses the student has taken during his/her undergraduate degree and the area of specialization for Masters.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 241 Thermodynamics I</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 370 Kinematics and Dynamics of Machinery</td>
<td>3</td>
</tr>
<tr>
<td>ME 371 Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 220 Mechanics of Solids</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Information**

- Entrance Tests: GRE General Test (TOEFL is also required for international applicants whose native language is not English.)

For detailed information, contact Dr. David Littlefield, Department of Mechanical Engineering, BEC 257, 1720 2nd Avenue South, Birmingham, Alabama 35294-4461. Telephone: 205-934-8460 E-mail: littlefield@uab.edu Web: http://www.uab.edu/engineering/home/departments-research/me/graduate

**School of Health Professions**

Dean: Dr. Harold P. Jones

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 bachelor's, 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, certificate options 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) 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 SHP Office of Student Recruitment, Engagement, and Success as early as possible to plan for completion of program prerequisites.

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. For specific requirements, see the UAB Student Health and Insurance Programs and UAB Immunization Policy. If accepted into a SHP program, students must complete a background check and drug screen upon admission and again prior to clinical placement.
Applicants are considered regardless of race, color, religion, sex, 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

Interdisciplinary Programs

The School of Health Professions offers two graduate level interdisciplinary programs. The Graduate Certificate in Health-Focused Patient/Client Management for Physical and Occupational Therapists (p. 110) is designed to prepare PTs and OTs for expanding roles in the areas of prevention, health promotion, and wellness. Health Focused Patient/Client Management is the integration of health promotion and education methods in OT and PT practice to create a holistic approach to enhance patient/client wellness and quality of life.

The Ph.D. in Rehabilitation Science (p. 110) is an interdisciplinary program sponsored by the Department of Occupational Therapy and the Department of Physical Therapy within the School of Health Professions. This program is designed to prepare graduates to become academicians, scholars, scientists, and researchers in education, health care, industry, and government institutions as well as consultants to individuals, communities, and governments. The aim of this program is to prepare candidates to become leaders in teaching and research within the field of Rehabilitation Science. However, this is not a clinical training program. Applicants planning to become occupational therapists or physical therapists should look at the graduate catalog entries for these two professions.

Health Focused Patient/Client Management for Physical and Occupational Therapists

Contact Information

Program Director: Diane Clark, DSc
E-Mail: clark@uab.edu
Phone: 205 - 934 - 3566

Mailing address:
The University of Alabama at Birmingham
Department of Physical Therapy
1720 2nd Avenue South
SHPB 337
Birmingham, AL 35294-1212

Program Information

The UAB Graduate Certificate in Health Focused Patient/Client Management for Physical and Occupational Therapists is designed to prepare PTs and OTs for expanding roles in the areas of prevention, health promotion, and wellness. Health Focused Patient/Client Management is the integration of health promotion and education methods in OT and PT practice to create a holistic approach to enhance patient/client wellness and quality of life. The ultimate goal of the certificate is to enable graduates to develop and implement clinical and community programs to address lifestyle and behavior factors that underlie many chronic diseases. Emphasis will be placed on program development for persons with disabilities. The concepts addressed in the certificate program are applicable across the patient/client lifespan and in a variety of practice settings.

Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTC 780 Health Focused Care in PT &amp; OT</td>
<td>3</td>
</tr>
<tr>
<td>PTC 781 Health Focused Patient/Client Communication and Advocacy</td>
<td>3</td>
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<tr>
<td>PTC 782 Health Focused Patient/Client Management I</td>
<td>3</td>
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<tr>
<td>PTC 783 Health Focused Patient/Client Management II</td>
<td>3</td>
</tr>
<tr>
<td>PTC 784 Health Focused Care - Synthesis Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Credentials Conferred

The Graduate Certificate in Health Focused Patient/Client Management for Physical and Occupational Therapists is awarded by the University of Alabama at Birmingham.

Length of Study

The certificate requires 5 semesters to complete; students take 1 course per semester.

Program Entrance Date

Students may begin the program in the spring, summer or fall term.

Admission Requirements

Admissions requirements include completion of a degree in physical or occupational therapy and current licensure as a physical or occupational therapist in the United States or foreign equivalent. Students from countries where English is not the official and primary language must also take and receive an acceptable score on the TOEFL or IELTS.

Degree Requirements

15 credit hours (5 required courses)

Rehabilitation Science

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: Ph.D.

Director: David A. Brown, PT, PhD
Phone: (205) 934-3566
E-mail: dbrownpt@uab.edu
Web site: http://www.uab.edu/rsphd

Program Information

Ph.D. in Rehabilitation Science

The Ph.D. in Rehabilitation Science program is an interdisciplinary program offered by The Department of Occupational Therapy and The Department of Physical Therapy at the School of Health Professions. This exciting program is designed to prepare graduates to become*:
• Academicians, scholars, scientists and researchers in education, health care, industry, and government institutions.
• Consultants to individuals, communities, and governments.

The goal of the Program is to prepare graduates to have the following skills:

• Design and implement research studies that will contribute to the knowledge base of rehabilitation science.
• Design and deliver educational courses related to rehabilitation.
• Translate innovative rehabilitation research findings into practice so as to advance the field of rehabilitation science.

The aim of this program is to prepare candidates to become leaders in teaching and research within the field of Rehabilitation Science. However, this is not a clinical training program. Applicants planning to become occupational therapists or physical therapists should visit the following websites to pursue training in these two professions: www.uab.edu/ot or www.uab.edu/pt.

Application Procedure

Received by UAB Graduate School
LHL G03
1720 2nd Avenue South
Birmingham, Alabama 35294-0013

• Complete and submit online Graduate School application
• Submit application fee payment - Domestic: $45.00
• Request one (1) official transcript to be mailed by the issuing institution to the UAB Graduate School
• Three (3) letters of recommendation are required. Please ask the individuals from whom you request references to submit them online via the Apply Yourself system. Electronic submission is the preferred method. However, if your referees prefer to mail a recommendation letter, it should be mailed to the address of the department or program to which you are applying.

Minimum Requirements for Admission

• Note that each application will be reviewed by the Admission Committee to identify individuals with strong commitment and aptitude to perform research related to Rehabilitation Science, along with strong academic preparation and professional-leadership potential.
• Undergraduate or graduate degree in occupational or physical therapy, engineering, exercise science, neuroscience, medicine, nursing, or other health related professions.
• Recommended minimum Graduate Record Exam (GRE) score of 50th percentile for all categories.
• Recommended minimum GPA 3.0/4.0 in all previous coursework
• Three strong evaluation references, with at least one from a research lab mentor, and one from an academic source.
• With the written essay, provide evidence of appropriate goals of study, professional growth and commitment to research, with special emphasis on interest in research that is being conducted at UAB.
• Interview with faculty that shows passion and commitment to research and professional growth in Rehabilitation Science.

For further information contact:
David A. Brown, PT, Ph.D.
• Have a BS degree in biology, chemistry, biochemistry, kinesiology/exercise science, biomedical sciences, psychology, or a related degree from an accredited college or university,
• Have a minimum undergraduate GPA of 3.0 (A= 4.0), computed from all undergraduate credits,
• Have a minimum science GPA of 3.0 (A=4.0), computed from all undergraduate coursework in biology, chemistry, mathematics, and physical sciences,
• Submit scores of Medical College Admissions Test (MCAT), Optometry Admissions Test (OAT), Dental Admission Test (DAT), or Graduate Record Exam (GRE),
• Have completed college level coursework that includes 8 hours of general biology, 8 hours of general or organic chemistry, and 4 additional hours of biological sciences,
• Submit a personal statement of interest to the program,
• Submit three letters of recommendation,
• If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at www.wes.org

If accepted, students must 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 before enrollment. A background check and drug screen will be required at program admission.

Persons with a Bachelor of Science degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program at the discretion of the program co-directors. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree seeking student does not constitute or guarantee admission to the M.S. degree program. Non-degree seeking students will be eligible to meet with M.S. BHS advisors to discuss course selections and planning for future enrollment in either the M.S. BHS program or the graduate health professional school of their choice.

Essential Functions
Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must evidence or perform at each stage of their education. The absence of an essential function would fundamentally alter a student’s ability to meet the program goals. The essential functions include commitment to learning, interpersonal skills, communication, time management, problem-solving, professionalism, responsibility, critical thinking, and stress management.

If you have a disability, but have not contacted Disability Support Services (DSS), please call (205) 934-4205 (voice) or (205) 934-4248 (TDD), or visit the DSS offices at 1701 9th Avenue South. Additional information is available at https://www.uab.edu/students/services/disability-support-services

Accreditation and Certification
None required.

Entrance Tests:
• MCAT, OAT, DAT, or GRE and for international applications from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)

Comments:
• Transcript evaluation by WES is required for applicants with foreign university degrees

Contact Information
For detailed information, contact the Department of Clinical and Diagnostic Sciences, Biomedical and Health Sciences Program, UAB School of Health Professions, SHPB 446, 1705 University Blvd., Birmingham, Alabama 35294-1212

Telephone: 205-934-7596
E-mail: AskCDS@uab.edu

Biotechnology
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.
Program Director: Tino Unlap, PhD
Phone: (205) 934-7384
E-mail: unlap@uab.edu
Web site: http://www.uab.edu/shp/cds/biotechnology-m-s-c-l-s-or-certificate

Program Information
Program Mission
The faculty members of the Biotechnology Program are devoted to providing excellent service to the community and its graduates. The faculty, in its concern for the health and safety of the general public, is committed to ensuring that each student develops knowledge, skills, and values essential to the appropriate role providing the basis for continuing intellectual and professional growth.
Out of a great concern for applied technology and the role that it plays in the diagnosis, management and treatment of human disease, and in developing products to solve problems for present and future generations, the Program is designed to provide instruction through didactic and practical training in order to ensure that its graduates possess the critical knowledge and skill sets that are required for intellectual and professional growth in the future.

Biotechnology Careers
The goal of the Master’s degree program is to provide a more direct route to a career in biotechnology by focusing on mastering current techniques used in biotechnology coupled with the business fundamentals necessary for successful product/technology development in the industry. The multi-disciplinary aspects of this program will broaden and expand the knowledge base of students, thus making graduates particularly useful to potential industry employers. According to the U.S. Department of Labor Occupational Outlook Handbook, 2010, the demand in the biotechnology field continues to drive job growth, with much higher expected increases
in career opportunities to be realized as compared to all other industries for the next several years (Batelle, 2012). The Biotechnology Program is a Master of Science degree that requires 3 semesters for completion as full-time students. The Master of Science requires 36 credit hours and is designed for individuals who hold a Bachelor of Science or Bachelor of Arts degree in a related discipline including biology, chemistry, biochemistry, physics, engineering, mathematics, psychology and sociology.

M.S. Admission Requirements
In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a biology, chemistry, or a related major from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A = 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit,
- Have scores of at least 153 on the verbal and a 144 on the quantitative sections of the Revised GRE,
- Provide a written statement of career goals,
- Complete an interview with the program admissions committee, and
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at www.wes.org.

If accepted, students must 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 before enrollment. Accepted students must complete a background check and drug screen at admission and prior to placement in clinical internships by school policy.

Essential Requirements
Fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program are available upon request from the Biotechnology program office. If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit https://www.uab.edu/students/services/disability-support-services.

Additional Information

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<thead>
<tr>
<th>Entry Term</th>
<th>Fall semester</th>
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<tr>
<td>Deadline for All Application Materials to be in the Graduate School Office:</td>
<td>July 1st</td>
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<td>Number of Evaluation Forms Required:</td>
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<tr>
<td>Entrance Tests:</td>
<td>GRE and for international applicants from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)</td>
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</tbody>
</table>

Comments: Financial aid (fellowship, stipend or assistantship) is not available from the program; scholarship availability is limited; transcript evaluation by WES is required for applicants with foreign university degrees

Contact Information
For detailed information, contact the Department of Clinical and Diagnostic Sciences, Biotechnology Program, UAB School of Health Professions, SHPB 430, 1705 University Blvd., Birmingham, Alabama 35294-1212. Telephone 205-934-3209. E-mail AskCDS@uab.edu

Biotechnology and Regulatory Affairs Certificate
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to the Graduate School.

| Degree Offered:               | Biotechnology Regulatory Affairs Graduate Certificate |
| Program Director:             | M. Tino Unlap, PhD |
| Phone:                        | (205) 934-7382 |
| E-Mail:                       | unlap@uab.edu |
| Website:                      | http://www.uab.edu/shp/cds/biotechnology-m-s-c-l-s-or-certificate |

Program Information

Program Mission
As the biotechnology industry grows and life science companies mature, there is an increasing demand for a workforce trained in regulatory affairs to ensure that therapeutics, biologics, diagnostics and medical device products progress successfully through the development, manufacturing and marketing processes. Currently there are thousands of ongoing clinical trials of new drugs, with many of them soon to be approved and ready for full-scale production, resulting in an all-time high demand for individuals with regulatory training.

The Biotechnology Regulatory Affairs certificate program is designed to provide students with targeted training and education in:

- The philosophies and roles of the domestic and international regulatory agencies that oversee drug, biologic, device, and diagnostics development,
- The laws that govern the development, manufacturing and commercial distribution of drugs, biologics and medical devices,
- The analysis of how emerging developments and trends are reshaping drug development and medical device regulation,
- The biological processes and laboratory techniques utilized for the discovery, development and evaluation of therapeutic drugs,
- Major concepts under which clinical trials are designed and run,
- The roles of the U.S. Food and Drug Administration (FDA), Institutional Review Boards, the Code of Federal Regulations and ethical principles,
• The complexities of clinical trial initiation and the issues of site and data management.

**Essential Requirements**

Fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program are available upon request from the Biototechnology program office. If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit https://www.uab.edu/students/services/disability-support-services.

<table>
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<tr>
<th>Entry Term:</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>Deadline for All Application Materials to be in the Graduate School Office:</td>
<td>February 28 (Early Acceptance); May 31 (Final Acceptance)</td>
</tr>
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</table>

Number of Evaluation Forms Required: None

Entrance Tests: GRE and for international applicants from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)

Comments: Financial aid (fellowship, stipend, or assistantship) is not available from the program; scholarship availability is limited; transcript evaluation by WES is required for applicants with foreign university degrees

**Contact Information**

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Biototechnology Program, UAB School of Health Professions, SHPB 430, 1705 University Blvd., Birmingham, Alabama 35294-1212.

Telephone 205-934-3209.

E-mail AskCDS@uab.edu

**Clinical Laboratory Sciences**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degrees Offered: M.S.

Director: Floyd Josephat, PhD

Phone: (205) 934-1348

E-mail: josephat@uab.edu

Web sites: http://www.uab.edu/shp/cds/clinical-laboratory-sciences

**Program Information**

**Program Mission**

The Faculty of the Clinical Laboratory Sciences program is committed to service to the community and to providing high quality education to prepare students with a solid educational background and a set of skills translatable to a variety of laboratory settings including hospital laboratories, industry, research laboratories, and many more. The Faculty, in its concern for the health and safety of the general public, is committed to ensuring that each student develops knowledge, skills and values essential to the appropriate role providing the basis for continuing intellectual and professional growth.

**M.S. Admission Requirements**

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a biology, chemistry, or a related major from an accredited college or university.
- Have a minimum undergraduate GPA of 3.0 (A = 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit.
- Have taken the GRE General Test,
- Provide a written statement of career goals,
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at www.wes.org

If accepted, students must 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 before enrollment. A background check and drug screen will be required at program admission and prior to clinical placement. Persons with a Bachelor of Science degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree student does not constitute admission to the M.S. degree program.

**Essential Functions**

Essential functions are fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program. A full list of the essential functions of the program are available from the CLS website under the link Admission (http://www.uab.edu/shp/cds/clinical-laboratory-sciences). Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must evidence or perform at each stage of their education. The absence of an essential function would fundamentally alter a student's ability to meet the program goals. The essential requirements include categories of observation, movement, communication, intellect, and behavior.

If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit the DSS offices at 1701 9th Avenue South. Additional information is available at https://www.uab.edu/students/services/disability-support-services.

**Accreditation and Certification**

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Program graduates are eligible to apply for the certification examination offered by the American Society of Clinical Pathology Board of Certification (ASCP-BOC).

**NAACLS**

5600 N River Road, Suite 720
Rosemont, IL 60018-5119
Phone: 847.939.3597
Fax: 773.714.8886
Admission Requirements

• Baccalaureate degree from a regionally-accredited college/university
• Graduate Record Examination (GRE) General Test scores from the Verbal, Quantitative and Analytic sections. Applicants with advanced degrees whose GRE scores are older than 5 years (the time limit that ETS will send scores) can send reports from previously attended graduate programs.
• A minimum cumulative undergraduate grade point average of at least 3.0 (A = 4.0)
• A minimum GPA of 3.0 in natural science courses
• A minimum cumulative grade point average of 3.0 in the program prerequisite courses, with a minimum grade of C in each (prerequisite courses are listed below)
• Resume or CV: This should include academic qualifications, a description and timeline of any paid or volunteer work experience in crisis counseling or peer counseling setting, working with individuals with genetic conditions or disabilities, technical work in laboratories, research, or teaching experience, and any other relevant information, such as job shadowing.
• A personal statement (no more than 500 words) highlighting your motivation to become a genetic counselor, and emphasizing your prior and current experiences and how they will benefit you in the profession.
• Paid or volunteer experience in a crisis counseling setting, peer counseling setting, working with individuals with genetic conditions or disabilities, technical work in genetics laboratories, research, or teaching experience in biology or genetics is recommended and encouraged in preparation for entering the genetic counseling field. Job shadowing is strongly encouraged.
• Interview with UAB faculty
• Three letters of recommendation
• Satisfactory screening on health data questionnaire by the UAB Medical Center Student Health Service.
• Complete a criminal background check and drug screen at program admission and again prior to clinical placement as required by school policy.
• The following course prerequisites:
  o 3 semester hours of biology I (with lab)
  o 3 semester hours of biology II (with lab)
  o 3 semester hours of biochemistry
  o 3 semester hours of genetics
  o 3 semester hours of statistics (upper level, population, and/or health-related)
  o 3 semester hours of psychology (general, developmental, or abnormal)

Degree Requirements
The graduate program in genetic counseling will follow the Plan II (non-thesis) option.

Program Curriculum

First Year

<table>
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<tr>
<th>First Term</th>
<th>Hours</th>
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<td>GC 725</td>
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<td>Course</td>
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<td>ECG 638</td>
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**Total credit hours: 16**

**First Year**

**Second Term**

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<td>CDS 503</td>
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**Total credit hours: 8**

**Second Year**

**First Term**

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<td>GC 600</td>
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<td>GC 652</td>
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<tr>
<td>GC 698</td>
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<tr>
<td>CDS 500</td>
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**Total credit hours: 10**

**Second Term**

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<td>GC 698</td>
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<tr>
<td>CDS 605</td>
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</table>

**Total credit hours: 9-12**

**Additional Information**

Deadline for Entry Term(s): January 15
Deadline for All Application Materials to be in the Graduate School Office: January 15
Number of Evaluation Forms Required: Three

Entrance Tests: GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact Program Director, Graduate Program in Genetic Counseling, UAB School of Health Professions, 1705 University Boulevard, SHPB 444, Birmingham, AL 35294-1212.
Telephone 205-975-4CDS (205-975-4237)
E-mail mailto:AskCDS@uab.edu (AskCDS@uab.edu)
Website www.uab.edu/msgc

**Health Physics**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

**Degree Offered:** M.S.
**Program Director:** Norman E. Bolus, MSPH, MPH
**Phone:** (205) 934-3427
**E-Mail:** bolusn@uab.edu
**Website:** www.uab.edu/shp/cds

**Program Information**

Health Physics is a discipline that focuses on the application of physics, nuclear science, and engineering physics to diagnostics, treatment, and therapeutic processes pertaining to public health protection. It includes instruction in radiation biophysics, biophysics, health effects of natural and artificially induced radiation, hazard evaluation, environmental radioactivity, nuclear physics, engineering physics, radiobiology, medical radiology, calibration and dosage theory, computer application and medical informatics, and specific research problems involving the use of non-ionizing and ionizing radiation.

**Program Accreditation and Professional Credentials**

Established Health Physics programs may seek accreditation from the Applied Science Accreditation Commission (ASAC) of the Accreditation Board for Engineering and Technology (ABET). Programmatic accreditation can be sought when the program is fully implemented and has graduated its first cohort of students. Program graduates will be eligible for part I of the certification examination administered by the American Board of Health Physics (ABHP).

**Entry Term:** Fall Semester
**Deadline for Application Materials to July 1 be in the Graduate School Office:**
**Program Length:** 4 consecutive semesters

- This program will enroll its first cohort in Fall 2016.

**Contact Information**

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Health Physics Program, UAB School of Health Professions, SHPB 446, 1705 University Blvd., Birmingham, Alabama 35294-1212.
Telephone 205-934-3209.
Nuclear Medicine Technology

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to the Graduate School.

Degree Offered: M.S.
Program Director: Norman Bolus
Phone: (205) 934-3427
E-mail: bolusn@uab.edu
Website: http://www.uab.edu/shp/cds/nuclear-medicine-technology

Program Information

Program Mission
The UAB Nuclear Medicine Technology Program is dedicated to providing a quality program by offering didactic and clinical coursework in a curriculum that is designed to prepare students to become competent and productive entry level technologists. The program also serves the profession through its offering of continuing education activities and educational products.

Admission Requirements
In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a BS degree in biology, physics, chemistry, biomedical sciences, bioengineering, or a related degree from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A= 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit,
- Have taken the GRE General Test,
- Apply for admission to the UAB NMT Program,
- Complete a clinical observation and write a reflection on the observation,
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at www.wes.org

The completed application and observation form must be on file with the program office by February 15th for a priority interview to be granted. All eligible applicants will be interviewed in March for admission decisions in early April. Eligible late applicants will be considered on a space-available basis during the summer term.

If accepted, students must 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 before enrollment. A background check and drug screen will be required at program admission and prior to clinical placement. Persons with a Bachelor of Science degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree.

Admission of a student to any course as a non-degree student does not constitute admission to the M.S. degree program.

Essential Functions
Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must show evidence of to be able perform at each stage of their didactic and clinical education. A list of essential functions is on file in the NMT Program Office and in the NMT Program & Policy Book.

If you have a disability, but have not contacted Disability Support Services (DSS), please call (205) 934-4205 (voice) or (205) 934-4248 (TDD), or visit the DSS offices at 1701 9th Avenue South. Additional information is available at https://www.uab.edu/students/services/disability-support-services.

Accreditation and Certification
Nuclear Medicine Technology academic programs are accredited by the Joint Review Committee on Nuclear Medicine Technology Programs (JRCNMT). Program graduates are eligible to apply for the certification examination offered by both the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiological Technologists (ARRT).

JRCNMT
2000 W. Danforth Road
Suite 130, #203
Edmond, OK 73003
Phone: 405.285.0546
Fax: 405.285.0579
jrcnmt@coxinet.net
http://www.jrcnmt.org/

NMTCB
3558 Habersham at Northlake
Building I
Tucker, GA 30084
Phone: 404.315.1739
Fax: 404.315.6502
board@nmtcb.org
http://www.nmtcb.org/root/default.php

ARRT
1255 Northland Drive
St. Paul, MN 55120
Phone: 651.687.0048
Fax: 651.687.3299
https://www.arrt.org/
Entry Term: Fall Semester
Deadline for All Application Materials to be in the Graduate School Office: Early Admission: February 15th

Entrance Tests: GRE and for international applicants from non-English speaking countries, scores for the test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)

Comments: Scholarship money is available, but is very limited; transcript evaluation by WES is required for applicants with foreign university degrees

Contact Information
For detailed information, contact the Department of Clinical and Diagnostic Sciences, Nuclear Medicine Technology Program, UAB School of Health Professions, SHPB 446, 1705 University Blvd., Birmingham, Alabama 35294-1212.
Telephone 205-934-3209.
E-mail AskCDS@uab.edu

Physician Assistant Studies
Students should use this checklist to complete the CASPA application. The Physician Assistant program will notify students when it is time to complete the Graduate School application online.

Students should complete this checklist after the CASPA application has been approved and the Physician Assistant program has notified them of admission to the program.

Degree Offered: M.S.P.A.S.
Program Director: James R. Kilgore, PhD, PA-C
Phone: (205) 934-9124
E-mail: AskCDS@uab.edu
Web site: www.uab.edu/pa

General Information
Physician Assistants (PAs) are valuable members of a multidisciplinary healthcare team. The profession was established in 1965 to help physicians provide healthcare services to under-served and rural populations. While the profession remains committed to its historical mission, PAs are now employed in almost all medical and surgical specialties.

PAs are healthcare professionals licensed to practice medicine under the supervision of a physician. Individual state practice laws and hospital bylaws define the scope of practice and prescribing authority of physician assistants. In general, most states authorize PAs to prescribe non-controlled substances and perform any task delegated by a supervising physician.

To be eligible for licensure, PAs must graduate from an accredited physician assistant program and pass the Physician Assistant National Certification Examination (PANCE). To maintain licensure, PAs must complete 100 hours of continuing medical education credits every two years and pass the Physician Assistant National Recertification Examination (PANRE) every six years. PAs may obtain additional training through postgraduate residency programs in subspecialty areas, but these programs are not required for licensure or practice in subspecialty areas.

The mission of the UAB Physician Assistant Program is to provide qualified individuals with the knowledge, skills, and judgment needed to assist physicians in the care of patients in surgical, acute-care, and medical settings. While physician assistants function under the direction of the physicians, they are capable of performing selected tasks autonomously.

Accreditation:
The Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA).

Credentials Conferred:
Diploma–The Master of Science in Physician Assistant Studies (MSPAS) degree is awarded by the University of Alabama at Birmingham.

Professional Certification:
Graduates of the UAB PA program are eligible to take the Physician Assistant National Certifying Examination (PANCE) sponsored by the National Commission on Certification of Physician Assistants to become a certified PA.

Essential Requirements
Fundamental tasks, behaviors, and abilities necessary to successfully complete the academic and clinical requirements of the program and to satisfy licensure/certification requirements have been outlined and are available upon request from the academic program office. Students requesting disability accommodations should contact UAB Disability Support Services (DSS) at 205-934-4205.

Program Curriculum:
Course requirements are listed below with semester credit hours shown.

Didactic Curriculum
First Year

<table>
<thead>
<tr>
<th></th>
<th>First Term</th>
<th>Hours</th>
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Second Term

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<td><strong>Total</strong></td>
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</table>

Total credit hours: 15

Total credit hours: 19
The clinical component of the curriculum consists of 12 clinical rotations PA 621 – PA 632 plus Senior Seminar I, II & III, and a Master’s Research Project Presentation. Of the clinical rotations, 7 are required and 5 are electives.

**Clinical Rotations (PA 621- PA 632)**

7 Required Clinical Rotations

5 Elective Clinical Rotations:

Emergency Medicine

Family Medicine

Intensive Care Units

**Requirements**

- **BY 115** Human Anatomy 4
- **BY 116** Introductory Human Physiology 4
- **BY 123** Introductory Biology I 4
- **BY 124** Introductory Biology II 4
- **BY 261** Introduction to Microbiology 4
- **CH 115** General Chemistry I 4
- **CH 116** and General Chemistry I Laboratory 4
- **CH 117** and General Chemistry II 4
- **CH 118** and General Chemistry II Laboratory (CH 105, CH 106, CH 107, CH 108 accepted) 8
- **PY 216** Elementary Statistical Methods 4
- **PY 216L** and Elementary Statistical Methods Laboratory 4
- **PY 101** Introduction to Psychology 3
- **PY 201** Honors Introduction to Psychology 3
- **PY 212** Developmental Psychology 3
- **PY 218** Abnormal Psychology 3
- **HCM 360** Statistics for Managers 3

Deadline for All Application Materials to be received by the CASPA:

Completed applications must be received by the Central Application Service for Physician Assistants (CASPA) no later than September 1 the year prior to the expected term of enrollment

Number of Evaluations/ Letter of Recommendations Required:

Three
**Health Services Administration**

The Department of Health Services Administration includes degree programs at baccalaureate, masters, and doctoral levels, as well as undergraduate minors and a variety of professional education opportunities for health services executives and clinicians. Some programs in the department are the only one of their kind in the state, or first of their kind in the nation. The MSHA Program is ranked #2 in the nation. Degree programs currently available include:

- Administration - Health Services, PhD and DSc
- Clinical Informatics, Graduate Certificate
- Health Administration, MSHA
  - Tracks: Residential, Executive, International
- Health Care Management, BS
  - Tracks: Clinical Manager, General Manager, Long Term Care Administration, Pre-Professional
- Health Informatics, MSHI
  - Tracks: Data Analytics, User Experience, Health Information Management Advanced Practice
- Healthcare Quality and Safety, MS and Graduate Certificate
- Undergraduate Minors
  - Clinical Coding and Reimbursement, Health Care Management, Health Information Management

**Administration Health Services**

Prospective students should use this checklist (Ph.D.) to obtain specific admissions requirements on how to apply to the Graduate School.

Prospective students should use this checklist (D.Sc.) to obtain specific admissions requirements on how to apply to the Graduate School.

<table>
<thead>
<tr>
<th>Degrees Offered:</th>
<th>D.Sc., Ph.D.</th>
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</thead>
<tbody>
<tr>
<td>Director:</td>
<td>Dr. Robert Hernandez (School of Health Professions)</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 934-3113</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:phdha@uab.edu">phdha@uab.edu</a></td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="http://www.uab.edu/shp/home/about-shp">http://www.uab.edu/shp/home/about-shp</a> (School of Health Professions)</td>
</tr>
<tr>
<td>Web site:</td>
<td><a href="http://www.uab.edu/business/">http://www.uab.edu/business/</a> (School of Business)</td>
</tr>
</tbody>
</table>

**Doctor of Philosophy Program Information**

The Ph.D. program in Administration–Health Services is a degree program offered jointly and cooperatively by the Department of Health Services Administration in the School of Health Professions and the Graduate School of Management in the School of Business. Faculty associated with the School of Public Health, School of Medicine, Lister Hill Center for Health Policy, Center for Outcomes and Effectiveness Research and Education, and Center on Aging also contribute to student learning.

The Ph.D. program is for those who wish to pursue the conceptual, philosophical, and applied aspects of administrative processes in health services, health policy, and outcomes research in health care. It provides doctoral-level study and research in administration with specific application to health services. The pedagogical focus is on developing a strong research orientation through course work, research seminars, and mentoring relationships with faculty. Students may choose a specialization in either strategic management or health services research. Students who are interested in pursuing academic careers are also afforded the opportunity to develop their teaching skills through course work and teaching opportunities. Job placement occurs in regional, national, and international markets. To date, more than 100 graduates have taken positions in academic institutions as well as health service delivery, governmental, and consulting organizations.

**Admission Requirements**

An applicant should already possess a master's degree in a relevant discipline or have completed an undergraduate program with an outstanding record. Completed applications of well-qualified candidates received by January 15 may be considered for early admission. The application deadline is March 15. Although applications may be considered after March 15, admission and financial aid priority is given to those applicants whose materials are complete by March 15. Applications submitted after March 15 would be considered on a space-available basis only.

Admission recommendations are made by the Admissions and Policy Committee after examination of the candidate’s qualifications, which should include a minimum GRE General Test score of 300 (verbal plus quantitative), if tested prior to August 2011; equivalent combined scores for the revised GRE; or a GMAT test score of 550. All applicants whose first language is not English are also required to submit a score for the Test of English as a Foreign Language (TOEFL). A TOEFL score of 80 is required if the TOEFL taken is based on the Internet version; if computer-based, the minimum score required is 213; and if the paper-based test version is taken, the minimum acceptable score is 550 or above. Consideration will also be given to the quality of the applicant’s academic record, previous research experience and productivity, and estimated research potential as indicated by references.

Various forms of financial aid are available to students. Departmental research assistantships are awarded on a competitive basis and carry an obligation of 20 hours of work per week. Assistantships are awarded to incoming students for a period of one year, and may be renewable for a second year based on satisfactory work and academic progress, depending on the availability of funds. Some students are able to secure funding for additional years in the program through research assistant positions or other part-time jobs funded by faculty members’ grants and contract activities. Other forms of financial assistance include minority fellowships offered through the UAB Graduate School, paid teaching opportunities in selected undergraduate programs, and federal student loans.

**Prerequisites**

Prerequisite requirements include one graduate-level statistics course with computer usage, one graduate-level course on the U.S. health care system, and an introductory healthcare finance course. Incoming students who have not met these prerequisites during a master’s program
may take courses prior to entering the program or during their first year of study in the program.

Program of Study
The program of study consists of five components:

1. Courses in administration and health systems,
2. Courses in research methodology and statistics,
3. Specialization courses,
4. Comprehensive examinations,
5. The doctoral dissertation.

Specializations are currently available in strategic management and health services research. Students must complete all coursework in the first three areas and pass a comprehensive examination in each before work can officially begin on the dissertation. The investigation and other special work leading to the dissertation must be performed directly under the guidance and supervision of a five-person committee of the UAB graduate faculty. The normal minimum period in which the doctoral degree can be earned is three to four years of full-time study.

Degree Completion
The granting of the Ph.D. degree is based on completion of all required coursework, residency requirements, comprehensive examinations, dissertation requirements, and the recommendation of the Administration–Health Services graduate program director and the dissertation committee.

Mission, Vision, and Values Statements
Because outstanding teaching and research are essential to the future of health care delivery in our nation and abroad, the Ph.D. program in Administration–Health Services provides doctoral-level training to individuals who will be our future health care leaders in academic and nonacademic research organizations. We seek to recruit a diverse and talented group of national and international students who are attracted to careers in research and teaching. The educational experience in the Ph.D. program is characterized by exposure to the various disciplines relevant to health administration and policy from across the university, as well as one-on-one mentoring relationships with faculty. These experiences are expected to serve as a foundation for future research throughout the graduate careers.

Additional Information

| Deadline for Entry Term(s):                | January 15th                     |
| Deadline for All Application Materials to be in the Graduate School Office: | March 15th                       |
| Number of Evaluation Forms Required:      | Three                            |
| Entrance Tests:                           | GRE or GMAT (TOEFL also required for international applicants whose native language is not English.) |
| Comments:                                 | Stipend support available        |

For detailed information, contact the Program Office of the Doctoral Programs in Administration–Health Services, UAB School of Health Professions Building, 1705 University Boulevard, Birmingham, AL 35294-1212.
Telephone 205-934-3113
Fax 205-975-6608
E-mail phdha@uab.edu
Web www.hsa.uab.edu

Doctor of Science Program Information

The Doctor of Science (D.Sc.) in Administration-Health Services program is designed for healthcare executives who are seeking to engage in a rigorous course of study that will also permit them to retain their demanding work and life responsibilities. D.Sc. students are interested in continuing a practice-focused career, as opposed to the academic career sought by most residential Ph.D. students.

The program is offered by the Department of Health Services Administration. Faculty associated with the School of Public Health, Lister Hill Center for Health Policy, Center for Outcomes and Effectiveness Research and Education, and other national experts also contribute to student learning.

Admission Requirements
Qualified applicants will preferably have a master's degree in health administration; health informatics; business administration; or a related field. Degree(s) must be from an accredited institution. In addition, qualified applicants will have a minimum of five years of mid- to senior-level managerial experience in health management.

Students whose first language is not English must submit recent scores for the Test of English as a Foreign Language (TOEFL) exam or IELTS. Applicants who have received a degree from an accredited U.S. institution or from institutions in countries where English is the primary language of instruction are not required to submit the TOEFL or IELTS score.

The UAB Graduate School has approved a waiver of the GRE/GMAT requirement for all applicants to the Executive Doctoral Program in Administration-Health Services.

The application procedure for the D.Sc. in Administration-Health Services Program requires both an application to the UAB Graduate School as well as supplemental materials that must be submitted directly to the D.Sc. Program Office. A full checklist of required items can be found on the “Application Process” page of the program website www.uab.edu/execdoc.

Applications are reviewed by the Admissions and Policy Committee of the Executive D.Sc. in Administration-Health Services Program. The committee forwards a recommendation to the Dean of the UAB Graduate School who then communicates official admission decisions via written letter.

As it is based on a cohort model, the Executive D.Sc. Program only admits for the fall of each year. Applicants who complete applications prior to February 1 will be given priority in the admission process. Applications received after February 1 will be considered on a space-available basis.

Program of Study
The program of study consists of four components.
1. Courses in administration and health systems,
2. Courses in research methodology and statistics,
3. Comprehensive examinations,

Students must complete all coursework and pass a comprehensive examination before work can officially begin on the dissertation. The investigation and other special work leading to the dissertation must be performed directly under the guidance and supervision of a four-person committee of the UAB graduate faculty. The normal minimum period in which the doctoral degree can be earned is three years of full-time study.

Degree Completion

The granting of the D.Sc. degree is based on completion of all required coursework, residency requirements, a comprehensive examination, dissertation requirements, and the recommendation of the Administration–Health Services graduate program director and the dissertation committee.

Mission, Vision, and Values Statements

The mission of the Executive Doctoral Program is to develop highly qualified strategic management practitioners and scholars. We accomplish this mission through: our strategic management courses, faculty/student interaction, publishing and presenting our work, and teaching others.

Additional Information

Deadline for Priority Application: February 1st. After February 1st, applications will be considered on a space-available basis.

Number of Evaluation Forms Required: Three

Entrance Tests: TOEFL required for international applicants whose native language is not English.

Comments: Stipend support available

For detailed information, contact the Program Office of the Doctoral Programs in Administration–Health Services, UAB School of Health Professions Building, 1705 University Boulevard, Birmingham, AL 35294-1212.

Telephone 205-934-3588
Fax 205-975-6608
E-mail execdoc@uab.edu (phdha@uab.edu)
Web www.uab.edu/execdoc

Health Administration

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.H.A.
Residential and Executive M.S.H.A.
Director: Amy Yarbrough Landry, PhD
(Residential & Executive)
Phone: (205) 936-7767
E-mail: akyarb@uab.edu
Web site: www.uab.edu/msha

Program Information

The Master of Science in Health Administration (MSHA) Program, accredited by the Commission on Accreditation of Healthcare Management Education, trains executives for health services organizations. The program has graduated more than 1,300 persons since 1965.

Students must complete 23 graduate courses and a 12-month administrative residency in a health care organization. A capstone core course is completed during the last on-campus semester. Twenty-one core courses and two elective courses are required as well as a summer internship or international experience for single-degree MSHA students. All students begin in the fall term and complete coursework in 21 months followed by the administrative residency.

Complete applications for fall entry are due no later than the preceding November 1. Since admission to the MSHA program is very competitive, early application is encouraged.

MSHA-MBA, MSHA-MSHI Coordinated Degrees

Students wishing to pursue simultaneously the Master of Science in Health Administration (MSHA) and the Master of Business Administration (MBA) degrees must complete 29 graduate courses, including 1 elective. Students seeking to complete the Master of Science in Health Administration (MSHA) and the Master of Science in Health Informatics (MSHI) must complete 30 graduate courses including a summer internship. A 12-month administrative residency in a health services organization is required for completion of the MSHA program. A student who enters a coordinated program, but subsequently decides to pursue only one of the degrees, must satisfy all the requirements for the degree sought.

Application Information

Applicants to the MSHA, MSHA-MBA, or MSHA-MSHI programs must have completed or anticipate completion of at least a baccalaureate degree from a regionally accredited college or university or from a recognized university abroad before entry into the program. Prior to matriculation, MSHA-MBA students must have successfully completed three semester credit hours in pre-calculus to meet MBA requirements. Application for the MSHA program should be made using the UAB Graduate School Apply Yourself Application Network Service available at (https://app.applyyourself.com/AYApplicantLogin/ll_ApplicantLogin.asp?id=uab-grad).

Deadline for Entry Term(s): Fall
Deadline for All Application Materials to be in the Graduate School Office: November 1 for first priority and June 1 if space is still available
Number of Evaluation Forms Required: Three

Additional Information

Deadline for Priority Application: Fall
Deadline for All Application Materials to be in the Graduate School Office: November 1 for first priority and June 1 if space is still available
Number of Evaluation Forms Required: Three
Entrance Tests: GRE (minimum composite score of 300) or GMAT (minimum score of 480) is required for Residential applicants only. TOEFL and TWE are also required for all international applicants whose native language is not English.

Comments: Additional application for admission is required by program

For detailed information, contact Admissions Coordinator, Department of Health Services Administration, UAB School of Health Professions, SHPB 567, 1720 2nd Avenue South, Birmingham, AL 35294-3361.
Telephone 205-934-1583
E-mail parmstrong@uab.edu
Web www.uab.edu/msha or the UAB Graduate School of Management (MBA Program), BEC 203, 1720 2nd Avenue South, Birmingham, Alabama 35294-4460.
Telephone 205-934-8815
E-mail cmanning@uab.edu
Web http://www.uab.edu/business/

Executive MSHA Program
Qualified students can earn the Master of Science in Health Administration (MSHA) by completing the Executive format. This program is open to individuals with at least 5 years of experience in health care organizations, either as managers or as clinical professionals. Participants in the MSHA program (Executive format) complete both on-campus and distance-learning activities, and a brief field experience, within 2 years of study.

Additional Information
For detailed information, contact Admissions Coordinator, Department of Health Services Administration, UAB School of Health Professions, SHPB 590C, 1720 2nd Avenue South, Birmingham, Alabama 35294-3361.
Telephone 205-996-6593
E-mail hjlee@uab.edu (sarap@uab.edu)
Web www.uab.edu/msha

Health Informatics (M.S.H.I.)
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.H.I.
Program Director: Amanda Dorsey, MSHI
Phone: (205) 934-3509
E-mail: mshi@uab.edu
Web site: www.uab.edu/hki

Program Information
Program Admission
Admission to the program is in the fall semester. Application to the program may be made September through April 30, preceding the expected date of enrollment for the next fall term. Applications received after April 30 are considered on a space-available basis. Applications are evaluated against the Graduate School criteria and those criteria developed specifically for the HI program. The ideal size of each entering class is 20 to 25 students.

Admission Requirements
Admission to the program requires acceptance to the Graduate School of The University of Alabama at Birmingham. Applicants must have completed or anticipate completion of at least a baccalaureate degree from a regionally accredited college or university or from a recognized university abroad before entering the program. As a criterion for unconditional admission, applicants must have no less than a B GPA (3.0 on a 4.0 scale) for the last 60 semester hours of earned undergraduate credit or overall undergraduate credit or overall undergraduate hours. Official transcripts of all previous academic work beyond the secondary level should be submitted. Before matriculation, entering students must have received a final transcript for each degree received.

The applicant should include a carefully drafted statement about his or her personal interests, career goals, and relevant background experience and a professional resume. Three confidential letters of recommendation from individuals qualified to write concerning your potential for success in both a graduate program and in the Health Informatics field must be submitted.

Prior to entering the program, applicants should have completed three hours of undergraduate or graduate course work in statistics and and three hours in programming or a relevant continuing education course in event-driven programming (e.g., Visual Basic, C++, Java, XML, .Net).

Admission to the HI program is determined by an interview process and the consensus of the Admissions Committee. The decision is based on previous academic record, professional recommendations as evidence of ability to perform graduate-level work, and an interview with two faculty members. The program director reserves the prerogative for final recommendation on admission status to the Graduate School.

Applicants accepted to the program must complete a criminal background check and drug screen at program admission and again prior to clinical placement as required by school policy.

Additional Information
Deadline for Entry Term(s): Fall
Deadline for All Application Materials to be in the Graduate School Office:
Number of Evaluation Forms Required: Three
Entrance Tests: (TOEFL and TWE also required for international applicants whose native language is not English.)
Comments: None

Program Overview
Based on the needs of health care CIOs, UAB’s MSHI curriculum integrates the domains of information and communication technology, the health care delivery process and leadership and management principles. This collaborative approach to health care IT allows our graduates to understand the complexity of relationships that must be considered when making technology decisions in a healthcare setting.

Our students graduate with a solid understanding of how clinicians and administrators use information and technology in making decisions.
With courses in the effective design and use of information systems, databases, software, hardware and networks, students also learn how to successfully manage the flow of information throughout a healthcare organization and the value of building a solid business case for the purchase, implementation and use of technology in a healthcare setting. Graduates are prepared to become senior and executive level leaders in the healthcare IT industry. Students are exposed to a variety of academic disciplines and gain a broad education that serves as a foundation for them throughout their careers as information and health service executives.

The program is comprised of a core curriculum plus one track of the student's choosing. The first year of the MSHI core curriculum includes HI 640-Introduction to Health Informatics and the US Healthcare Delivery System, HI 600-Analysis & Design of Information Systems in Healthcare, HI 601-Databases and Data Modeling, HI 602-Clinical & Administrative Systems, HI 630-Strategic Planning and Contracting, HI 620-Security and Privacy in Healthcare. During the second year, students complete the MSHI core by taking HI 686-Leadership Theory, HI 687-Leadership Development and HI 688-Leadership Advocacy.

Data Analytics Track

The proliferation of information technology to support workers in the healthcare industry has resulted in a massive amount of healthcare data being generated. While the data are seen as an organizational asset that can both help determine trends and patterns in patient care delivery and increase the organizational efficiency, there are very few individuals trained to extract, combine, manipulate, interpret, and display these data in meaningful ways. This track produces graduates who help healthcare organizations institute data-driven decision-making processes. Beyond that, graduates of this track in the MSHI program are trained to assist organizations with developing data governance strategies, which help them define the way they think about quality, security, access to data, and policies surrounding data.

Courses in the Data Analytics Track include HI 632-Quantitative Methods for Health Informatics, HI 660-Advanced Requirements Analysis, HI 661-Advanced Database Design and SQL for Healthcare, HI 662-Healthcare Business Intelligence and HI 664-Directed Data Analytics Design Project.

Entry into this track requires admission to the MSHI Program and completion of the first year MSHI core curriculum. Declaration for this track occurs in the first summer semester of the student's first year in the program.

Health Information Management Track

The HIM Advanced Practice Track is designed to offer leadership-focused education necessary to advance in the fields of HIM and Informatics. New skills to be acquired by graduates of this track include providing education of the public on the personal health record (PHR), solving high stakes and complex information management problems, providing strategies for information and data governance, education and training strategies for clinical and administration systems, and research methods to promote the management of health information in the electronic health record and health information technology environment.

Courses in this track include HIM 615-Development of the Electronic Health Record, HIM 650-Research Methods for HIM Practice, HIM 665-Health Data Analytics for Performance Improvement, HIM 680-Applied Project I, HIM 681-Applied Project II, and HIM 682-Seminar: Implementation Strategies for the EHR.

Entry into this track requires a minimum of 3 years relevant work experience, an RHIA or RHIT credential, admission to the MSHI Program and completion of the first year MSHI core curriculum. Declaration for this track must be made while in the first year of the MSHI Program.

User Experience Track

Information technology (IT) has facilitated many significant improvements to the way that we deliver patient care. But, most IT solutions currently in use by healthcare organizations were not designed to enable new models of healthcare delivery and will require development of more intuitive interfaces that model the behaviors and needs of patients and clinical end users. New products and software cannot be perceived as too difficult to use, nor can they compromise clinicians' ability to interact meaningfully with their patients. Graduates of the Healthcare User Experience Track bring an in-depth understanding of a complex healthcare delivery system, the technologies that are required to support patient care delivery, and the understanding of best practices in designing safe, effective, and user-friendly products and software in a healthcare setting.

Courses in the User Experience Track include HI 650-Foundations of Healthcare User-Based Design, HI 651-Foundations of Healthcare User-Based Research, HI 652-Design Thinking for Healthcare, HI 653-Managing the User-Centered Development Process and HI 654-Directed User Experience Project.

Entry into this track requires admission to the MSHI Program and completion of the first year MSHI Core. Declaration for this track occurs in the first summer semester of the student's first year in the program.

For detailed information, contact the Admissions Coordinator, Master of Science in Health Informatics Program, UAB School of Health Professions, SHPB 590A. Physical address: 1705 University Blvd. Mailing address: 1720 2nd Avenue South, Birmingham, AL 35294 Telephone 205-934-3509 Fax 205-975-6608 E-mail mshi@uab.edu

Healthcare Quality and Safety

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.
Program Director: Deirdre McCaughey, PhD
Phone: (205) 996-5773
E-Mail: askhqs@uab.edu
Website: www.uab.edu/hqs

Program Information

The Master of Science in Healthcare Quality and Safety will prepare individuals to provide leadership in the design, implementation, and evaluation of clinical and non-clinical process improvement and patient safety activities in complex healthcare environments. The program will comprise a didactic and experiential curriculum including:

- Quantitative and analytical methods and statistical process control techniques
- Quality management models such as PDSA, Lean, and Six Sigma
- Risk and patient safety assessment and management techniques
- Implementing and managing cultural and organizational change
The program is housed in the Department of Health Services Administration (HSA) in the School of Health Professions. The HSA Department currently offers graduate degrees in health administration and health informatics, both of which include courses with leadership, quality improvement, and data analytics content, as well as a graduate certificate in Healthcare Quality and Safety (HQS).

**Admission Requirements**

Admission requirements include eligibility for admission to the UAB Graduate School, and at least two years current or past work experience in a quality- or safety-related job in the healthcare industry. Applicants must have completed a bachelor’s degree (or higher) from an accredited college or university, with a minimum GPA of 3.0 in the junior and senior level course work.

Additional requirements will include completion of a program-specific application showing quality or safety-related employment and previous relevant training, interview(s) with faculty, personal statement regarding interest in the program, and prior completion of a basic statistics course. Employment experience in a health care organization is preferred, but not mandatory. Applicants with no previous healthcare experience will be required to complete a survey of healthcare course as a prerequisite.

An admissions committee comprised of program administrators and HQS course masters will review applications and make final admission decisions based on desired cohort size.

**Required Coursework**

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<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HQS 600 Introduction to Clinical Quality Improvement</td>
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<tr>
<td>HQS 610 Quantitative Methods, Measurement, and Tools for Quality Improvement</td>
<td>4</td>
</tr>
<tr>
<td>HQS 612 Health Data Management and Analytics for Enterprise Performance Improvement</td>
<td>4</td>
</tr>
<tr>
<td>HQS 615 Collaborative Analytics for Quality and Safety Improvement</td>
<td>3</td>
</tr>
<tr>
<td>HQS 625 Fundamentals of Patient Safety</td>
<td>4</td>
</tr>
<tr>
<td>HQS 630 Leadership of High Reliability Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HQS 635 Healthcare Policy and Regulation</td>
<td>3</td>
</tr>
<tr>
<td>HQS 675 Evaluating and Designing Quality Improvement Models</td>
<td>3</td>
</tr>
<tr>
<td>HQS 698 Integrative Capstone Experience/Non-Thesis Project</td>
<td>3-6</td>
</tr>
<tr>
<td>HRP 650 Management and Leadership Skills for Clinical Professionals</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Hours 33-36

**Healthcare Quality and Safety Graduate Certificate**

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Graduate Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Director:</td>
<td>Deirdre McCaughey, PhD</td>
</tr>
<tr>
<td>Medical Director:</td>
<td>Scott Buchalter, MD</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 996-5773</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:askhqs@uab.edu">askhqs@uab.edu</a></td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.uab.edu/hqs">www.uab.edu/hqs</a></td>
</tr>
</tbody>
</table>

**Program Information**

The Graduate Certificate in Healthcare Quality and Safety is a unique, multidisciplinary approach to the analysis and solution of complex problems. The program prepares clinical and administrative professionals to deploy quality- and safety-focused strategies for their organization. HQS is a high quality, academically rigorous forum for developing the individual knowledge and skills needed to conduct clinical practice and non-clinical process improvement projects in a complex medical environment.

The certificate program, housed in the Department of Health Services Administration in the School of Health Professions, requires a combined approach using data and models from the natural, social, technological, behavioral and life sciences, and other specialized fields. The curriculum is delivered by an interdisciplinary team of faculty from the University of Alabama at Birmingham Schools of Health Professions, Nursing, Public Health and Medicine.

**Admission Requirements**

- Undergraduate, graduate or professional degree in a health-related field and at least two years of experience in health care.
- Personal statement regarding interest in the program and the identification of a quality related project topic.
- Minimum G.P.A of 3.00 or above for the past 60 hours of course work.
- Non-refundable application fee of $45, payable online.
- Official transcripts of all previous academic work beyond the secondary level.
- Current Resumé or CV which outlines your professional work experience

<table>
<thead>
<tr>
<th>Entry Term:</th>
<th>Fall and Spring Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline for All Application Materials to be in the Graduate School Office:</td>
<td>March 1 and October 1, after these deadlines, applications will be considered on a space available basis</td>
</tr>
<tr>
<td>Length of Study:</td>
<td>15 Credit Hours</td>
</tr>
</tbody>
</table>

**Required Coursework**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HQS 600 Introduction to Clinical Quality Improvement</td>
<td>4</td>
</tr>
<tr>
<td>HQS 610 Quantitative Methods, Measurement, and Tools for Quality Improvement</td>
<td>4</td>
</tr>
<tr>
<td>HQS 625 Fundamentals of Patient Safety</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours 33-36
Nutrition Sciences

Prospective students should use this checklist (Ph.D.) to obtain specific admissions requirements on how to apply to Graduate School.

Prospective students should use this checklist (M.S.) to obtain specific admissions requirements on how to apply to Graduate School.

Ph.D. Program in Nutrition Sciences (NS)

Degree Offered: Ph.D.
Director: Dr. Jose Fernandez
Phone: (205) 934-2029
E-mail: jose@uab.edu
Web site: www.uab.edu/nutrition

The program leading to the Ph.D. in Nutrition Sciences at UAB is designed to provide coursework and research experience that emphasizes the science of nutrition in maintaining the health of individuals and populations and preventing a variety of diseases. The doctoral program combines required and elective didactic coursework in basic sciences and nutrition with research incorporating basic science, clinical applications, and translational research conducted in superb facilities in an outstanding research environment.

Admission for PhD in NS

To meet Graduate School and departmental standards for admission into the PhD in NS, a student must have a combined GRE score of 310, an undergraduate degree with a strong science background, three letters of recommendation based on thorough knowledge of the applicant's background and abilities, and, of great importance, a statement of goals and purpose that delineates the student's motivation and purpose in seeking this degree.

Coursework and Other Requirements

Successful completion of the Ph.D. will require completion of a minimum of 14 semester hours in core courses (encompassing the disciplines of biochemistry, nutritional biochemistry, and statistics and experimental design) and at least 24 additional graduate semester hours of required and elective coursework from nutrition and other disciplines; passing a comprehensive written qualifying examination; and defense of a dissertation reporting the results of original scientific research that makes a genuine contribution to the knowledge of nutrition sciences. In fulfilling the latter requirement, with rare exceptions, a student must author at least two papers that are publishable in peer-reviewed journals, with one paper already published at the time of dissertation defense.

Core Classes must include:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 621</td>
<td>Applied Statistics to Nutrition Sciences I</td>
</tr>
<tr>
<td>NTR 637</td>
<td>Applied Research in Nutrition Sciences</td>
</tr>
<tr>
<td>NTR 690</td>
<td>Seminar</td>
</tr>
<tr>
<td>NTR 718</td>
<td>Nutritional Biochemistry</td>
</tr>
</tbody>
</table>

Required Courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 622</td>
<td>Recent Advances in Nutrition Cancer Research</td>
</tr>
<tr>
<td>NTR 733</td>
<td>Laboratory Instruments and Methods in Nutrition Research</td>
</tr>
<tr>
<td>NTR 736</td>
<td>Scientific Methods</td>
</tr>
<tr>
<td>NTR 747</td>
<td>Molecular Biology and Nutrition Sciences</td>
</tr>
<tr>
<td>NTR 779</td>
<td>Obesity in the 21st Century</td>
</tr>
<tr>
<td>NTR 788</td>
<td>Advanced Nutrition Seminar (Required each semester for a total of 5 credits)</td>
</tr>
</tbody>
</table>

Elective classes:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 604</td>
<td>Principles and Practice of Nutrition Support</td>
</tr>
<tr>
<td>NTR 609</td>
<td>Applied Nutrition for Physical Activity and Disease Prevention</td>
</tr>
<tr>
<td>NTR 631</td>
<td>Community Interventions for Healthy Lifestyles</td>
</tr>
<tr>
<td>NTR 632</td>
<td>Nutrition Counseling and Education</td>
</tr>
<tr>
<td>NTR 701</td>
<td>Advanced Medical Nutrition</td>
</tr>
<tr>
<td>NTR 722</td>
<td>Recent Advances in Nutrition and Cancer Research</td>
</tr>
<tr>
<td>NTR 750</td>
<td>Body Composition and Energy Metabolism</td>
</tr>
<tr>
<td>NTR 769</td>
<td>Race, Nutrition and Health</td>
</tr>
<tr>
<td>GRD 717</td>
<td>Principles of Scientific Integrity</td>
</tr>
</tbody>
</table>

M.S. Program in Nutrition Sciences (NS)

Degree Offered: M.S.
Director: Dr. Brenda Bertrand
Phone: (205) 934-8770
E-mail: brendamb@uab.edu
Web site: www.uab.edu/nutrition

The MS in Nutrition Sciences provides experiences that foster understanding about nutrition research, health promotion, and disease prevention. Students choose from one of the two available track options, the Research Track or the Clinical Track/Dietetic Internship.
Admission for MS in NS

The Nutrition Sciences graduate program recommends fall-term entry. Interested students must first obtain admission to the UAB Graduate School. Graduate School admission standards include:

1. A ‘B’ average computed overall, or alternatively computed over the last 60 semester hours of earned credit;
2. Evidence of a bachelor’s degree from a regionally accredited university or college in the United States; and
3. A combined score of at least 300 on the verbal and quantitative sections of the GRE General Test.
4. Complete a criminal background check and drug screen at program admission and again prior to clinical placement as required by school policy.

Additional requirement for the Clinical Track only:

1. Evidence of a bachelor’s degree from a Didactic Program approved by the Accrediting and Credentialing of Education for Nutrition and Dietetics (ACEND).

Degree Requirements

The MS in Nutrition Sciences requires successful completion of 14 semester hours in core courses, and additional specific courses for each of the tracks.

Core Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 618 Nutritional Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>NTR 621 Applied Statistics to Nutrition Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>NTR 637 Applied Research in Nutrition Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NTR 690 Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional Information

Deadline for Entry Term(s): Fall
Deadline for All Application Materials to be in the Graduate School Office: Six weeks before term begins
Number of Evaluation Forms Required: Three

Entrance Tests: GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact Dr. Brenda Bertrand, Professor and Director, Graduate Program in Nutrition Sciences, Department of Nutrition Sciences, UAB School of Health Related Professions, Webb Building, Room 534, 1675 University Boulevard, Birmingham, AL 35294-3360.

Telephone 205-934-8770
E-mail bertrandmb@uab.edu (miller1@uab.edu)
Web www.uab.edu/nutrition

MS in NS Lifestyle Management and Disease Prevention Track

Students in the MS in NS Lifestyle Management and Disease Prevention Track must complete 36 semester hours of graduate-level coursework (14 semester hours in core courses, 19 semester hours of required courses and 3 semester hours of graduate-level elective coursework). This is a non-thesis track and all coursework is offered online.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 609 Applied Nutrition for Physical Activity and Disease Prevention</td>
<td>3</td>
</tr>
<tr>
<td>NTR 632 Nutrition Counseling and Education</td>
<td>4</td>
</tr>
<tr>
<td>NTR 631 Community Interventions for Healthy Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>KIN 637 Physiology of Exercise I</td>
<td>3</td>
</tr>
<tr>
<td>CDS 545 Genetics and Genomics Applications in Healthcare</td>
<td>2</td>
</tr>
<tr>
<td>CDS 550 Introduction to Medical History Taking and Physical Examination</td>
<td>3</td>
</tr>
<tr>
<td>CDS 605 Survival Spanish for Health Professionals</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 22

MS in NS Research Track

Students in the MS in NS Research Track must complete 37 semester hours of graduate-level coursework (14 semester hours in core courses, 20 semester hours of required track courses, and 3 semester hours of elective credits). Students in the Research Track are required to complete and orally defend thesis research that contributes to the knowledge of nutrition sciences (NTR 698 and NTR 699).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 623 Applied Statistics to Nutrition Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>NTR 636 Scientific Methods</td>
<td>3</td>
</tr>
<tr>
<td>NTR 698 Master’s Level Non-Thesis Research</td>
<td>2</td>
</tr>
<tr>
<td>NTR 699 Master’s Level Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td>NTR 733 Laboratory Instruments and Methods in Nutrition Research</td>
<td>1</td>
</tr>
<tr>
<td>NTR 788 Advanced Nutrition Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GRD 717 Principles of Scientific Integrity</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 19

MS in NS Clinical Track/Dietetic Internship

Students in the MS in NS Clinical Track/Dietetic Internship must complete 48 semester hours of graduate-level coursework (14 semester hours in core courses and 34 semester hours of required track courses). Students are required to complete 1,200 contact hours of supervised professional practice in nutrition and dietetics (NTR 589). This is a non-thesis track.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTR 500 Communications in Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NTR 601 Advanced Medical Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTR 604 Principles and Practice of Nutrition Support</td>
<td>3</td>
</tr>
<tr>
<td>NTR 611 Advanced Food System and Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>NTR 589 Internship Practicum</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Total Hours 11-22

Clinical Track / Dietetic Internship Accreditation

The Clinical Track / Dietetic Internship is accredited by the Accrediting and Credentialing of Education for Nutrition and Dietetics (ACEND) and is designed to prepare entry-level dietitians for careers in a variety of health care, wellness, and food service facilities. Appointments to this Nutrition Sciences track are awarded on a competitive basis through
a national computer matching process. You must also be admitted to the Graduate School (admission standards are listed under the M.S. in Nutrition Sciences above).

An onsite internship is offered in Birmingham, and an offsite internship is offered in each of the following cities in Alabama: Huntsville, Mobile, Montgomery, and Birmingham. Upon completion of the internship, you are eligible to take the national examination to become a registered dietitian.

Additional Information
For detailed information, contact the Director, Dietetic Internship, Department of Nutrition Sciences, UAB School of Health Professions, Webb Building, Room 540 1675 University Boulevard, Birmingham, AL 35294-3360.

Telephone 205-934-3223
E-mail dintr@uab.edu
Web www.uab.edu/nutrition

Occupational Therapy
Prospective students should use this checklist (Entry Level) to obtain specific admissions requirements on how to apply to Graduate School.

Prospective students should use this checklist (Post Professional) to obtain specific admissions requirements on how to apply to Graduate School.

Prospective students should use this checklist (Low Vision Rehabilitation) to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: Master of Science
Interim Director: Dr. Gavin Jenkins
Phone: (205) 934-7324 or (205) 934-8623
Web site: http://www.uab.edu/shp/ot/

Program Information
The Department of Occupational Therapy at the University of Alabama at Birmingham offers an entry level Master of Science (MS) degree in occupational therapy for individuals who hold a baccalaureate degree in a field other than occupational therapy. For individuals without a baccalaureate degree, this curriculum is also offered in conjunction with the undergraduate Health Care Management program as a 3:2 HCM/OT Pathway (www.uab.edu/shp/ot/32-fast-ot).

MSOT Occupational Therapy
The MS in OT entry-level, or professional program, is a full-time day program.

Accreditation
The program is fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE)® of the American Occupational Therapy Association (AOTA)®, located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449; telephone: (301)652-6611 ext 2914.

Credentials Conferred
The Master of Science degree is awarded by the University of Alabama at Birmingham.

Professional Certification
Graduates of the program are eligible to sit for the national occupational therapist certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT)®; website: www.nbco.org After successful completion of the exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

Applicants should be aware that fieldwork placement sites, professional licensing agencies and prospective employers frequently require criminal history disclosures and background checks, although convictions do not necessarily disqualify someone for licensure or employment. Applicants with criminal convictions should recognize that such convictions may impede eventual licensure or employment and that the University of Alabama at Birmingham cannot predict the future decisions of fieldwork sites, licensing agencies, or employers. An individual who is considering, or who has entered, an occupational therapy educational program can have his/her background reviewed by requesting an Early Determination Review.

Length of Study
Entry level program: Minimum of 7 semesters (2 1/2 years) as a full-time student.

Program Entrance Date
Fall semester of each year a new class is enrolled.

Application Deadline
This program participates in the Occupational Therapy Centralized Application Service (OTCAS). Please consult www.otcas.org for more information regarding specific OTCAS application requirements, procedures, and fees. Applicants should send all application materials directly to OTCAS. OTCAS will verify the application information and send completed applications to the program.

Contact Information for OTCAS:
Web: https://portal.otcas.org/ Phone: (617) 612-2860 -- Monday through Friday 9:00 -- 5:00 EST Email: otcasinfo@otcas.org

International Students
See Occupational Therapy Entry Level Admissions Checklist at the top of the page, in addition to these items:

- Complete and submit UAB Graduate School International application;
- Request one (1) official transcript to be mailed by the issuing institution to the UAB Graduate School; a transcript evaluation from World Education Services (www.wes.org) or Educational Credential Evaluators (www.ece.org) is required;
- Take and receive an acceptable score on the TOEFL or the IELTS, if the student is from a country where English is not the official and primary language;
• Submit official TOEFL test score: Institution code: 1856 or official IELTS score (provide the Graduate School’s mailing address to the testing company/center); and
• Mail Financial Affidavit of Support.

Requirements for Admission
The applicant must hold a baccalaureate degree from an accredited college or university in a field other than occupational therapy. Acceptance will be based on the student’s academic ability, aptitude for a career as an occupational therapist, and an interview. The candidate is expected to satisfy the following requirements:

• Hold a baccalaureate degree in a discipline other than occupational therapy from an accredited college or university; or receive a baccalaureate degree in a discipline other than occupational therapy by June 1st of the admission year;
• UAB Entry-Level Occupational Therapy Program requires the GRE taken within the last 5 years;
• Completion of prerequisite coursework by June 1st of the admission year.
• Have a minimum overall GPA of 3.0 (A = 4.0);
• Have an overall minimum GPA of 3.0 (A=4.0) or better for all prerequisite courses;
• If invited, participate in an interview at the Department of Occupational Therapy. Interviews are scheduled once an application is received, verified, and reviewed.
• Complete a criminal background check and drug screen at program admission and again prior to placement as required by school policy.

Procedures Following Acceptance
Once accepted, students will be allowed to enroll into the program in the desired entry year only if the following requirements are met:

• Medical clearance requirements met as posted at www.uab.edu/studenthealth/;
• Application to and acceptance by the Graduate School (online) (www.uab.edu/graduate/online-forms) including the fee;
• Signed Letter of Intent received by the Department of Occupational Therapy; with,
• $300 nonrefundable deposit to reserve a seat in the program (deposit will be applied to tuition).

Essential Requirements
Prior to enrollment, students must certify their ability to complete the essential tasks, with or without reasonable accommodation, associated with performing as an occupational therapy student. Reasonable accommodation refers to ways in which the University can assist students with disabilities to accomplish these tasks (for example, providing extra time to complete an examination or enhancing the sound system in a classroom). Reasonable accommodation does not mean that students with disabilities will be exempt from certain tasks; it does mean that the Department of Occupational Therapy will work with students with disabilities to determine whether there are ways to assist the student with completion of the required tasks.

After enrollment, a student with a disability who wishes reasonable accommodation contacts Disability Support Services (205) 934-4205 or (205) 934-4248 (TDD) or visit 9th Avenue Office Bldg. 1701 9th Ave., provides appropriate and current documentation substantiating the claimed disability, meets the requirements of a disability as described in the ADA, and identifies the needed accommodation. Reasonable accommodation in classroom and in practice settings cannot be provided without the formal request and the required documentation of the ADA defined disability. (Visit http://www.uab.edu/dss )

Essential Tasks and Skills
The student must possess sufficient cognitive skills to:

• Acquire, process, retain and apply knowledge through a variety of instructional methods such as: written materials (i.e. texts, journals, documentation and other written sources), oral delivery, visual demonstrations, laboratory experiences, clinical experiences and independent learning.
• Complete reading assignments, search and analyze professional literature, and apply information gained to guide practice.
• Process (measure, calculate, analyze, synthesize and evaluate) large amounts of complex information; apply theoretical concepts to practice activities and perform clinical problem-solving in a logical and timely manner.
• Perceive and understand three-dimensional relationships and spatial relationships necessary for education and practice related tasks such a moving in a variety of environments, designing treatment equipment, and fabricating splints.
• Maintain attention for 2-4 hours; tolerate days when classes or fieldwork may last 8-10 hours.
• Take and pass test/quizzes in a variety of formats.
• Complete written assignments and produce written documentation in standard and organized English.
• Apply knowledge and judgment required to demonstrate ethical reasoning and behavior.
• Apply safety knowledge and judgment to a variety of situations.
• Comply with University, Program, and fieldwork site rules and regulations.
• Demonstrate problem-solving skills and judgment necessary to modify evaluation or intervention methods when necessary to address the specific needs of individuals (behavioral, cultural, etc.), in order to maximize client performance.
• Apply clinical reasoning and judgment necessary for interpretation of evaluation data and development of treatment plans.
• Identify and select occupations that are goal directed and motivate and challenge clients.
• Demonstrate judgment necessary to establish priorities and develop and use strategies.

The student must possess sufficient interpersonal skills, communication skills, and affective learning skills to:

• Demonstrate positive sufficient interpersonal skills including, but not limited to, cooperation, flexibility, tact, empathy, and confidence.
• Collaborate with classmates, clients, family members, significant others, and team members.
• Function successfully in supervisory, and instructor-student relationships; change and adjust behavior and performance in the classroom, laboratory, or clinic on the basis of instructor feedback.
• Participate equitably in cooperative group learning activities; actively participate in class discussions and as a member of a team.
• Sustain the mental and emotional rigors of a demanding educational program in occupational therapy that includes academic and
The student must possess sufficient physical and sensory skills to:

• Tolerate periods of physical activity up to 8-10 hours per day.
• Tolerate sitting up to 2 hours at a time, over an 8-10 hour period.
• Produce the required volume of work in the expected time frame.
• Maintain ethical standards including honesty, integrity, and confidentiality, at all times.
• Obtain information from clients, peers, faculty, supervisors, and other professionals.
• Use language appropriate to the recipient, with faculty, peers, clients, and other health professionals from different social and cultural backgrounds; use communication skills needed to practice safely.
• Communicate in the English language effectively and clearly in oral and written forms, using proper spelling, punctuation, and grammar to explain procedures and teach skills.
• Use therapeutic communication skills such as attending and active listening during therapeutic interactions; and motivating and facilitating client behaviors in order to maximize client performance.
• Communicate effectively both verbally and non-verbally; elicit and describe factual information and perceive information derived from verbal and non-verbal communication and social cues.
• Be appropriately assertive as required to speak in class, initiate and guide the therapy process, establish limits as needed for the safety of self and clients and establish professional identity within complex systems.
• Tolerate physical contact with others; tolerate manipulation of his/her own body by peers or instructors for instructional purposes.
• Demonstrate a sufficiently high degree of coordination of motor skills and ability to prioritize activities effectively as needed to attend class and fulfill class requirements.
• Demonstrate respect for diversity, including but not limited to, socioeconomic, spiritual, and lifestyle choices.
• Function successfully in supervisory and instructor-student relationships; change and adjust behavior and performance in the classroom, laboratory, or clinic on the basis of instructor feedback.
• Exhibit professional demeanor including appropriate language and dress, acceptance of responsibility for conduct.
• Demonstrate organizational and time management skills and ability to prioritize activities effectively as needed to attend class and fulfill class requirements.
• Exhibit flexibility and adapt to changing environments and expectations.
• Cope with stresses encountered in the intensive educational process as well as clinical practice environments.
• Demonstrate consistent work behaviors including initiative, preparedness, dependability, punctual attendance and work site maintenance.
• Tolerate working in environments where there is exposure to disability, illness, pain, and death.
• Maintain general good health and self-care in order not to jeopardize the health and safety of self and others in the academic and clinical settings.
• Maintain ethical standards including honesty, integrity, and confidentiality, at all times.
• Produce the required volume of work in the expected time frame.

The student must possess sufficient professional behavior to:

• Demonstrate respect for diversity, including but not limited to, socio-cultural, socioeconomic, spiritual, and lifestyle choices.
• Demonstrate organizational and time management skills and ability to prioritize activities effectively as needed to attend class and fulfill class requirements.
• Exhibit flexibility and adapt to changing environments and expectations.
• Cope with stresses encountered in the intensive educational process as well as clinical practice environments.
• Demonstrate consistent work behaviors including initiative, preparedness, dependability, punctual attendance and work site maintenance.
• Tolerate working in environments where there is exposure to disability, illness, pain, and death.
• Maintain general good health and self-care in order not to jeopardize the health and safety of self and others in the academic and clinical settings.
• Maintain ethical standards including honesty, integrity, and confidentiality, at all times.
• Produce the required volume of work in the expected time frame.

The student must possess sufficient physical and sensory skills to:

• Tolerate sitting up to 2 hours at a time, over an 8-10 hour period.
• Tolerate periods of physical activity up to 8-10 hours per day.
• Demonstrate coordination, equilibrium, and sensory functioning required to manipulate parts of, or whole bodies of, simulated and real clients for purposes of evaluation and treatment.
• Demonstrate mobility and ability to move within environments adequately to access and maneuver within locations and destinations including classroom, lab, and clinical settings.
• Demonstrate lifting ability sufficient to maneuver an individual’s body parts effectively to perform evaluation and treatment techniques including, but not limited to, transferring another person into and out of a wheelchair, to and from the commode or bed, etc.
• Demonstrate sufficient postural control, neuromuscular control, eye/hand coordination, and integrated function of the senses of vision, hearing, tactile sense, vestibular (movement sense) and proprioception (sense of muscles and joints) to manipulate and use common occupational therapy equipment, devices, materials, and supplies, and demonstrate competency in the use of these objects within assessment and treatment procedures commonly used in occupational therapy practice.
• Demonstrate motor skill capacities with sufficient levels of strength, endurance and fine and gross motor coordination to safely, accurately, and effectively engage in a wide variety of therapeutic techniques, activities and occupations used in the occupational therapy assessment and intervention process; these capacities would include ability to lift and move objects, adequate manual dexterity, arm and hand function needed to use tools and perform other manipulative activities, use of limbs and trunk in bending, twisting, squatting, kneeling, reaching, pushing, pulling, holding, extending, and rotation.
• Manipulate or guide another person's body in transfers, ambulation, positioning and assisted or facilitated trunk, head, and limb movements.
• Manipulate bolsters, pillows, plinths, mats, assistive/adaptive devices, and other supports or chairs to aid in positioning, moving, or treating a patient/client effectively.
• Legibly record/document evaluations, patient care notes, and referrals, etc., in standard medical charts in clinical settings in a timely manner and consistent with the acceptable norms of clinical settings.
• Demonstrate or complete activities or tests with adequate degree of fine motor dexterity.
• Tolerate physical contact with others; tolerate manipulation of his/her own body by peers or instructors for instructional purposes.
• Demonstrate a sufficiently high degree of coordination of motor skills and vigilance to respond to emergency situations quickly and appropriately, including performance of CPR.
• Travel to various community and fieldwork sites for experiential learning, clinical opportunities, and fieldwork.

Program Prerequisites - UAB Equivalents*

(Course requirements are listed in semester credit hours)

Completion of prerequisite coursework within the last 8 years with a grade of “B” or better. No more than two prerequisites may be incomplete at the time of application; however, all courses must be completed by June 1st of the entrance year. Depending on the number and type of outstanding prerequisite courses, you may be accepted into the program early with certain conditions such as a requirement to achieve a grade of B or better in a course.
Have a minimum 3.0 (A=4.0) grade point average (GPA) overall, in the required prerequisite work, and last 60 semester hours.

### Prerequisite Courses Required

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology with Lab (UAB Equivalent BY 123+L)</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy with lab (UAB Equivalent BY 115+L)</td>
<td>4</td>
</tr>
<tr>
<td>Human Physiology with lab (UAB Equivalent BY 116+L)</td>
<td>4</td>
</tr>
<tr>
<td>Physics (UAB Equivalent PH 201)</td>
<td>3</td>
</tr>
<tr>
<td>Abnormal Psychology (UAB Equivalent PY 218)</td>
<td>3</td>
</tr>
<tr>
<td>Developmental or Lifespan Psychology (must be birth through death)</td>
<td>3</td>
</tr>
<tr>
<td>(UAB Equivalent PY 212)</td>
<td></td>
</tr>
<tr>
<td>Sociology Elective (UAB Equivalent SOC 101)</td>
<td>3</td>
</tr>
<tr>
<td>Statistics Elective (PY 214, PY 216, MA 180, EPR 214 or AHS 360)</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology Elective (UAB Equivalent Soc 101 orANTH 101)</td>
<td>3</td>
</tr>
</tbody>
</table>

UAB Entry-level Occupational Therapy Program requires taking the GRE within the last 5 years.

### Typical Program

(Course requirements are listed in semester credit hours)

#### First Year

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 595</td>
<td>1</td>
</tr>
<tr>
<td>OT 606</td>
<td>3</td>
</tr>
<tr>
<td>OT 607</td>
<td>3</td>
</tr>
<tr>
<td>OT 620</td>
<td>4</td>
</tr>
<tr>
<td>OT 687</td>
<td>3</td>
</tr>
<tr>
<td>OT 675</td>
<td>2</td>
</tr>
</tbody>
</table>

Total credit hours: 16

**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 596</td>
<td>1</td>
</tr>
<tr>
<td>OT 605</td>
<td>3</td>
</tr>
<tr>
<td>OT 609</td>
<td>3</td>
</tr>
<tr>
<td>OT 622</td>
<td>3</td>
</tr>
<tr>
<td>OT 623</td>
<td>3</td>
</tr>
<tr>
<td>OT 630</td>
<td>1</td>
</tr>
<tr>
<td>OT 631</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credit hours: 17

**Summer Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 597</td>
<td>1</td>
</tr>
<tr>
<td>OT 610</td>
<td>3</td>
</tr>
<tr>
<td>OT 624</td>
<td>4</td>
</tr>
<tr>
<td>OT 632</td>
<td>1</td>
</tr>
<tr>
<td>OT 662</td>
<td>4</td>
</tr>
<tr>
<td>OT 673</td>
<td>3</td>
</tr>
<tr>
<td>OT 698</td>
<td>2</td>
</tr>
</tbody>
</table>

Total credit hours: 18

#### Second Year

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 598</td>
<td>1</td>
</tr>
<tr>
<td>OT 625</td>
<td>4</td>
</tr>
<tr>
<td>OT 633</td>
<td>1</td>
</tr>
<tr>
<td>OT 661</td>
<td>3</td>
</tr>
<tr>
<td>OT 668</td>
<td>4</td>
</tr>
<tr>
<td>OT 670</td>
<td>3</td>
</tr>
<tr>
<td>OT 698</td>
<td>2</td>
</tr>
</tbody>
</table>

Total credit hours: 18

#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 599</td>
<td>2</td>
</tr>
<tr>
<td>OT 634</td>
<td>2</td>
</tr>
<tr>
<td>OT 653</td>
<td>3</td>
</tr>
<tr>
<td>OT 665</td>
<td>4-5</td>
</tr>
<tr>
<td>OT 674</td>
<td>3</td>
</tr>
<tr>
<td>OT 698</td>
<td>2</td>
</tr>
<tr>
<td>HRP 650</td>
<td>2</td>
</tr>
</tbody>
</table>

Total credit hours: 18-19

#### Summer Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 685</td>
<td>10</td>
</tr>
</tbody>
</table>

Total credit hours: 10

#### Third Year

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 686</td>
<td>10</td>
</tr>
</tbody>
</table>

Total credit hours: 10

A minimum total of six credit hours Master's Level Non-Thesis Research must be completed to meet graduation requirements.

For further information contact:

UAB, Department of Occupational Therapy
Recruitment and Admissions Coordinator
SHPB 353
1720 2nd Avenue South
Birmingham, AL 35294-1212
Telephone 205-934-7323
E-mail msot@uab.edu
Web http://www.uab.edu/shp/ot/

### Postprofessional Degree

Deadline for entry term(s): Applications are no longer being accepted.

Deadline for all application materials: One semester preceding the expected semester of enrollment.

Number of evaluation forms required: Three
and identify the needed accommodation. Reasonable accommodation in disability, meet the requirements of a disability as described in the ADA, appropriate and current documentation substantiating the claimed disability, and a request and the required documentation of the ADA defined disability. (Visit http://www.uab.edu/dss).

**Essential Tasks**

- Students must meet class standards for course completion throughout the curriculum.
- Students must be able to read, write, speak, and understand English at a level consistent with successful course completion.
- Students must complete readings, assignments, and other activities outside of class hours.
- Students must apply critical thinking processes to their work in the classroom and exercise sound judgment in class during online discussions.
- Students must have interpersonal skills as needed for productive classroom discussion, and respectful interaction with classmates and faculty.
- Students must demonstrate appropriate health status prior to enrollment, with annual updates on some items.
- Students must follow standards and policies specified in the Department of Occupational Therapy Student Handbook, and the University of Alabama at Birmingham Directions Handbook.
- Students must adhere to all policies outlined in the Department of Occupational Therapy Student Handbook which will be displayed in the Resource section of each online course.

**Postprofessional Occupational Therapy Program**

*NOTE: The Post Professional OT Program accepted its last cohort of students in Fall 2015. Applications are no longer accepted.*

The program offers postprofessional education to occupational therapists who wish to learn advanced theoretical, practice, and research skills. Currently one online specialization option exists for the postprofessional – low vision. Students interested in low vision must be accepted into the low vision certificate program prior to applying for the postprofessional master’s degree. The 33-semester hour low vision option guides the student through coursework for the areas including theory, specialty practice application, research methodology, and a final project or thesis. Elective coursework from related departments taken prior to admission may be approved for degree requirements; however, you must submit a copy of the course syllabus and the year and semester you took the course before final decisions are made regarding approval. Graduates of the program may use this degree to enter specialized areas of practice, as part of the requirements for specialty certifications, to assume leadership positions within the profession, or to prepare for doctoral level study.

**Credentials Conferred**

The Master of Science degree is awarded by the University of Alabama at Birmingham.

**Length of Study**

Approximately 11 semesters are needed to complete this degree. The low vision post-professional master’s program was designed specifically for part-time online students.

**Essential Requirements**

After acceptance and prior to enrollment into online programs, students must certify their ability to complete the essential tasks, with or without reasonable accommodation, associated with performing as an occupational therapy student. Reasonable accommodation refers to ways in which the University can assist students with disabilities to accomplish these tasks (for example, providing extra time to complete an examination or enhancing the sound system in a classroom). Reasonable accommodation does not mean that students with disabilities will be exempt from certain tasks; it does mean that the Department of Occupational Therapy will work with students with disabilities to determine whether there are ways to assist the student with completion of the required tasks.

After enrollment, a student with a disability who wishes reasonable accommodation contacts Disability Support Services (205) 934-4205 or (205) 934-4248 (TDD) or visit 9th Ave. Office, 1701 9th Ave. S., provides appropriate and current documentation substantiating the claimed disability, meet the requirements of a disability as described in the ADA, and identify the needed accommodation. Reasonable accommodation in classroom and in practice settings cannot be provided without the formal request and the required documentation of the ADA defined disability. (Visit http://www.uab.edu/dss).

**Postprofessional curriculum**

(Course requirements are listed in semester credit hours)

Students must complete low vision coursework prior to, or concurrently with, post-professional coursework. Your stated area of interest will dictate the coursework required for completion of the post professional master’s degree. Required coursework for the Low Vision Rehabilitation Graduate Certificate (15 hours) can be viewed at www.uab.edu/lowvision

Students in both programs need to complete the following courses:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 642 Research Design in OT</td>
<td>1-3</td>
</tr>
<tr>
<td>OT 643 Data Analysis in OT Research</td>
<td>1-3</td>
</tr>
<tr>
<td>OT 644 Project Dissemination -</td>
<td>1-3</td>
</tr>
<tr>
<td>Professional Writing and Presentation</td>
<td></td>
</tr>
<tr>
<td>OT 653 Using the Literature for</td>
<td>3</td>
</tr>
<tr>
<td>Evidence Based Practice</td>
<td></td>
</tr>
<tr>
<td>OT 658 Foundations of Professional</td>
<td>4</td>
</tr>
<tr>
<td>Education</td>
<td></td>
</tr>
<tr>
<td>OT 667 Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>OT 692 Special Topics in OT (Elective)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Electives offered outside of the occupational therapy curriculum in programs at UAB are allowed with the permission of the advisor. Up to 12 hours of coursework taken at other institutions may apply as well but must be approved by the student’s advisor and must be completed with a grade of B or better. A copy of the course syllabus is required for approval.

For further information contact:
Laura K. Vogtle, PhD, OTR/L, FAOTA
Program Director
Occupational Therapy Postprofessional Program
UAB School of Health Professions
SHPB-338
1720 2nd Avenue South
Birmingham, AL 35294-1212
Telephone 205-934-3568
Essential Tasks

be provided without the formal request and the required documentation of
Reasonable accommodation in classroom and in practice settings cannot
as described in the ADA, and identify the needed accommodation.
substantiating the claimed disability, meet the requirements of a disability
(205) 934-4248 (TDD), provides appropriate and current documentation
accommodation contacts Disability Support Services (205) 934-4205 or
After enrollment, a student with a disability who wishes reasonable
accomplish these tasks (for example, providing extra time to complete an
accommodation refers
to ways in which the University can assist students with disabilities to
accomplish these tasks (for example, providing extra time to complete an
examination). Reasonable accommodation does not mean that students
with disabilities will be exempt from certain tasks; it does mean that
the Department of Occupational Therapy will work with students with
disabilities to determine whether there are ways to assist the student with
completion of the required tasks.

After enrollment, a student with a disability who wishes reasonable
accommodation contacts Disability Support Services (205) 934-4205 or
(205) 934-4248 (TDD), provides appropriate and current documentation
substantiating the claimed disability, meet the requirements of a disability
as described in the ADA, and identify the needed accommodation.
Reasonable accommodation in classroom and in practice settings cannot be
provided without the formal request and the required documentation of
the ADA defined disability. (Visit http://www.uab.edu/dss).

Essential Tasks

• Students must meet class standards for course completion throughout the curriculum.
• Students must be able to read, write, speak, and understand English at a level consistent with successful course completion and development of positive client-therapist relationships.
• Students must complete readings, assignments, and other activities.

Professional Students:

Students must have interpersonal skills as needed for productive
discussion, respectful interaction with classmates and faculty.
• Students must demonstrate appropriate health status prior to
enrollment with annual updates on some items. Requirements found
at www.uab.edu/studenthealth.
• Students must follow standards and policies specified in the
Department of Occupational Therapy Student Handbook, and the
University of Alabama at Birmingham Directions Handbook.
• Students must adhere to all policies outlined in the Department
of Occupational Therapy Student Handbook which is posted online at
www.uab.edu/shp/ot/contact-us/student-resources.

Application Deadline and Procedure

See Occupational Therapy Low Vision Rehabilitation Admissions Checklist at the top of the page.

International Students:

See Occupational Therapy Low Vision Rehabilitation Admissions Checklist, in addition to the following items:

• A transcript evaluation from World Education Services (www.wes.org) or
Educational Credential Evaluators (www.ece.org) may be required.
• Students from countries where English is not the official and primary
language may be required to take and receive an acceptable score
on the TOEFL, or the IELTS.
• Submit official TOEFL test score (Institution code: 1856) or official
IELTS score (provide the Graduate School’s mailing address to the
testing company/center)

Typical Program (Course requirements are listed in semester credit hours)

The curriculum is designed with the working occupational therapist in mind. Coursework emphasizes practical application to the clinic. Projects are designed to reinforce learning of application to practice. Materials for completion of the courses can be obtained through the internet and required texts. The student must have consistent access to the internet. A high-speed connection (DSL, cable, satellite) is strongly recommended.

Two Tracks Are Available:

Certificate Only

On completion of the required coursework the student will be awarded a Graduate Certificate in Low Vision Rehabilitation by the University of Alabama at Birmingham and the student’s name will appear in the commencement bulletin. A transcript of the coursework taken for the certificate will be available.

The curriculum for the certificate is offered online as web-based distance education for practitioners. Students accepted into the program begin the curriculum in August and complete one course per semester. Because one course builds on another, students must take the courses in sequence. The final course requires that the student come to the UAB campus for a 2-day on campus intensive where they will work in small
groups with instructors to demonstrate assessment and intervention skills. This is the only time the student is required to come to the UAB campus during the entire curriculum. Based on these requirements, course work for completion of the certificate will require 5 semesters.

LOW VISION REHABILITATION CURRICULUM

The courses must be completed sequentially in the order listed below.

Typical OT Curriculum Course Sequence

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Cohort</strong></td>
<td></td>
</tr>
<tr>
<td>OT 677</td>
<td>3</td>
</tr>
<tr>
<td>Foundations in Low Vision Rehabilitation I (1st Fall semester)</td>
<td></td>
</tr>
<tr>
<td>OT 679</td>
<td>3</td>
</tr>
<tr>
<td>Foundations in Low Vision Rehabilitation II (1st Spring semester)</td>
<td></td>
</tr>
<tr>
<td>OT 690</td>
<td>3</td>
</tr>
<tr>
<td>Foundations in Low Vision Rehabilitation III (2nd Fall semester)</td>
<td></td>
</tr>
<tr>
<td>OT 689</td>
<td>3</td>
</tr>
<tr>
<td>Foundations in Treatment of Visual Impairment from Brain Injury (2nd Spring semester)</td>
<td></td>
</tr>
<tr>
<td>OT 691</td>
<td>3</td>
</tr>
<tr>
<td>Foundations in Low Vision Rehabilitation IV (2nd Summer semester)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15 credits</td>
</tr>
</tbody>
</table>

For further information contact:

Program Coordinator
Occupational Therapy Low Vision Rehabilitation Certificate Program
UAB School of Health Professions
SHPB 351
1720 2nd Avenue South
Birmingham, AL 35294-1212
Telephone 205-975-6860
E-mail lvrcert@uab.edu
Web http://www.uab.edu/ot/low-vision-rehabilitation

Physical Therapy

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: D.P.T.
Director (D.P.T.): Dr. Diane Clarke
Phone: (205) 934-3566
Web site: www.uab.edu/pt

Program Information

The Doctor of Physical Therapy program is a course of study for students who hold baccalaureate degrees in fields of study other than Physical Therapy. Completion of the program after nine semesters leads to a Doctor of Physical Therapy (DPT) degree and serves as initial preparation for practice as a physical therapist.

Doctor of Physical Therapy (D.P.T.)

Physical therapists provide services to patient/clients who have body structure and function impairments, activity limitations, participation restrictions, or changes in physical function and health status resulting from injury, disease, and other causes. Physical therapists also address risk and provide prevention services and promote health, wellness, and fitness. Physical therapists interact and practice in collaboration with a variety of professionals. Physical therapists also function in consultative, education, administrative and supervisory roles in many different types of practice, research, and education settings.

Accreditation: The program is accredited by the Commission on Accreditation in Physical Therapy Education. (www.capteonline.org/home.aspx)

Credentials Conferred: The Doctor of Physical Therapy degree is awarded by the University of Alabama at Birmingham.

License: Graduates are eligible for the physical therapist licensure examination. Note that state law regulates the practice of Physical Therapy; contact a specific state’s Board of Licensure for Physical Therapy to obtain information on that state’s eligibility requirements. http://www.fspt.org/LicensingAuthorities/index.asp

Length of Study: Nine semesters.

Program Entrance Date: Spring semester.

Application Procedure: This program participates in the Physical Therapist Centralized Application Service (PTCAS). Please consult www.ptcas.org for more information regarding specific PTCAS application requirements, procedures and fees. The PTCAS application needs to be completed by the PTCAS deadline for the class beginning January, 2016. Applicants should send all application materials including GRE scores (use code 7801) directly to PTCAS. PTCAS will verify the application information and send completed applications to the program.

Requirements for Admission: The applicant must hold a baccalaureate degree from an accredited college or university within the United States in a field other than physical therapy. Acceptance will be based on the student’s academic ability and aptitude for a career as a physical therapist. The candidate is expected to satisfy the following requirements:

- Complete the PTCAS application based on the PTCAS deadline.
- 75% of prerequisite courses must be completed by the end of the fall semester of the year of application.
- Complete at least 40 hours of documented observation of physical therapy. Various settings are recommended. Documentation should be submitted to PTCAS.
- Submit three letters of recommendation to PTCAS.
- Letters 1 and 2: Written by a physical therapist who has interacted with the applicant for at least 20 hours in a clinical setting.
- Letter 3: Written by a professor with whom the applicant had significant interaction in an academic setting.
- Complete the GRE and have scores sent to PTCAS (code 7801).
- Have a minimum 3.0 (A=4.0) overall, prerequisites, and last 60 semester hours grade point averages. For prerequisite courses, no grade lower than a C will be accepted.
- If invited, complete a personal interview with the Department of Physical Therapy.

Students who are accepted into the UAB Doctor of Physical Therapy program must:

- Complete the UAB Graduate School application to include the Graduate School fee.
- 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.
• Send all official transcripts to the UAB Graduate School.
• Complete a criminal background check and drug screen before
program admission and as specified by the Department of Physical
Therapy.

State law regulates the practice of Physical Therapy. Therefore,
applicants are encouraged to review the nonacademic eligibility
requirements for licensure to practice physical therapy upon completion
of the program. These may be obtained from each individual
state’s Board of Licensure for Physical Therapy. [http://fsbpt.org/
LicensingAuthorities/index.asp]

**Program Prerequisites–UAB Equivalents**

(Course requirements are listed in semester credit hours)

**Arts and Humanities**

- English Compositions (6)

**Social and Behavioral Sciences**

- Psychology (6)

**Natural Sciences and Mathematics**

- Biology (12)
- Human/Mammalian Physiology (4)
- Chemistry for Science Majors (8)
- Physics for Science Majors (8)
- Pre-Calculus Trigonometry (3)
- Psychology (9)
- Statistics (3)
- Medical Terminology (2-3)

*It is strongly recommended that applicants take the following courses: practical reasoning or logic course, biomechanics or kinesiology and upper level biology (physiology).*

**Essential Requirements:** Fundamental tasks, behaviors, and abilities
necessary to successfully complete the academic and clinical/residency
requirements of the program and to satisfy licensure/certification
requirements, if any, have been outlined and are available upon request
from the academic program office. Students requesting disability
accommodations must do so by filing a disability accommodation request
with the UAB Office of Disability Support Services.

**Typical Program**

(Course requirements are listed in semester credit hours)

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summer Term</strong></td>
<td></td>
</tr>
<tr>
<td>PT 712</td>
<td>3</td>
</tr>
<tr>
<td>PT 720</td>
<td>3</td>
</tr>
<tr>
<td>PT 731</td>
<td>3</td>
</tr>
<tr>
<td>PT 770</td>
<td>1</td>
</tr>
<tr>
<td>PT 790</td>
<td>1</td>
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<tr>
<td>PT 791</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 12</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td></td>
</tr>
<tr>
<td>PT 704</td>
<td>3</td>
</tr>
<tr>
<td>PT 706</td>
<td>4</td>
</tr>
<tr>
<td>PT 714</td>
<td>1-2</td>
</tr>
<tr>
<td>PT 715</td>
<td>3</td>
</tr>
<tr>
<td>PT 721</td>
<td>3</td>
</tr>
<tr>
<td>PT 771</td>
<td>2</td>
</tr>
<tr>
<td>PT 792</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 18-19</td>
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</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summer Term</strong></td>
<td></td>
</tr>
<tr>
<td>PT 743</td>
<td>3</td>
</tr>
<tr>
<td>PT 744</td>
<td>4</td>
</tr>
<tr>
<td>PT 761</td>
<td>3</td>
</tr>
<tr>
<td>PT 798</td>
<td>1-9</td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 15-23</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Second Year</strong></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
</tr>
<tr>
<td>PT 741</td>
<td>5</td>
</tr>
<tr>
<td>PT 746</td>
<td>4</td>
</tr>
<tr>
<td>PT 762</td>
<td>3</td>
</tr>
<tr>
<td>PT 799</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total credit hours:</strong> 13</td>
<td></td>
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<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Second Term</strong></td>
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</tr>
<tr>
<td>PT 763</td>
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</tr>
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</table>
Students have access to a number of faculty members from multiple disciplines who bring research and academic expertise to the study of aging and the aged.

**Gerontology**

Certification Program Director: Dr. Patricia L. Sawyer  
Phone: (205) 934-9261  
E-mail: psawyer@uab.edu  
Web site: www.aging.uab.edu

**Program Information**

The Gerontology Education Program was established in 1980 through the cooperative efforts of the School of Social and Behavioral Sciences and the Comprehensive Center for Healthy Aging. Since that time, the program has expanded considerably and offers diverse academic opportunities. Students have access to a number of faculty members from multiple disciplines who bring research and academic expertise to the study of aging and the aged.

The Gerontology Education Program offers multidisciplinary academic courses in gerontology leading to a graduate certificate. The study of gerontology at these levels is designed to provide people educated in various disciplines with the background needed to work in programs related to aging and the aged. The main goal is to provide students with a thorough background in existing theory and research in gerontology, and a supplement to their existing backgrounds and professional disciplines. We have designed the program to prepare students for leadership roles in this field of growing importance for both the private and public sectors. Our program’s curriculum integrates research, theory, and practice. Its multidisciplinary approach reflects the urban mission of UAB.

The program office is located at the UAB Comprehensive Center for Healthy Aging. This academic program is administered by the Director of the Gerontology Education Program, who also serves as Chair of the Guidance Committee on Graduate and Undergraduate Education in Gerontology. This committee is made up of representatives of academic departments and schools throughout the UAB campus active in the study of aging and the aged. The multidisciplinary gerontology program is offered to all UAB students in good standing with the sponsorship and support of the School of Social and Behavioral Sciences, the School of Health Related Professions, and the Comprehensive Center for Healthy Aging.

**Student Admissions and Advisement**

Although general advisement is handled through UAB student advising and parent departments, student advisement in gerontology is handled formally by the Director of the Gerontology Education Program. The director facilitates student advisement with other members of the Committee on Graduate and Undergraduate Education in Gerontology. A graduate specialty is offered to students who want a special emphasis in gerontology or geriatrics. The major objective of this specialization is to provide a strong academic background for professional careers in academic and aging-related settings. There are two avenues for undertaking the graduate gerontology certificate requirements. Students in good standing in the graduate school can specialize in gerontology through their primary department. Letters of application also are accepted from students who have already completed requirements for an advanced or professional degree.
Students not currently enrolled in a graduate program at UAB may petition the university for non-degree admission status. Once accepted, the student can undertake a course of study to receive a graduate certificate upon completion of the required sequence of classes.

A careful review of proposed curriculum is recommended before the student enrolls for gerontology study. This will give students an opportunity to receive initial advisement while reviewing available study plans and course schedules.

Requirements

Students must complete at least 15 credit hours of graduate-level work in gerontology or geriatrics, achieving a grade of B or better in each course. The curriculum consists of a required multidisciplinary course offered through the graduate school (GRD 600) or the completion of an aging course from each of the following departments: biology, psychology and sociology, and gerontology electives chosen from a roster of courses approved by the Committee on Graduate and Undergraduate Education in Gerontology, and a required research project or a relevant internship. To ensure a multidisciplinary perspective, courses must represent at least two departments.

Additional Information

For detailed information, contact Dr. Patricia L. Sawyer, Director, UAB Gerontology Education Program, Center for Aging, Room 201-E1, 933 19th Street South, Birmingham, AL 35294-2041.
Telephone 205-934-9261
Fax 205-934-7354
E-mail psawyer@uab.edu

Medical Scientist Training Program

Degree Offered: M.D.-Ph.D.
Director: Robin G. Lorenz, M.D., Ph.D.
Director Title: Associate Dean of Physician Scientist Development
Phone: (205) 934-4092 or 934-0676
E-mail: rlorenz@uabmc.edu
Web site: http://www.mstp.uab.edu

Overview

UAB’s outstanding research and clinical training programs provide a unique opportunity for students interested in careers in basic biomedical research. As a designated NIH Medical Scientist Training Program (MSTP), students are admitted concurrently to the School of Medicine and the Graduate School in order to pursue both the M.D. degree and the Ph.D. degree. Ph.D. study in this program is available in the areas of biochemistry, structural, and stem cell biology; biomedical engineering; biostatistics; cancer biology; cell, molecular and developmental biology; epidemiology; genomics, and bioinformatics; health behavior; immunology; microbiology, neuroscience; nutrition sciences; pathology and molecular medicine; public health; sociology; and vision science.

Individuals admitted to this highly competitive program must have excellent undergraduate academic records and MCAT scores. In addition, successful applicants must have demonstrated their commitment to a career pathway as an investigator with active participation in an original research project prior to admission. Fellowship support, including a stipend and payment of tuition and fees, is provided to successful applicants.

In general, M.D.-Ph.D. students will first complete the basic science phase of the medical curriculum and the first-year core curriculum of their chosen Ph.D. discipline simultaneously. The second phase of study will focus on mentor selection, research path, and completion of a dissertation research project leading to the Ph.D. degree. The final phase of the program is a series of clinical rotations and an abbreviated set of acting internships to complete the M.D. degree. Normally, the program involves about 8 years for completion, depending on the time required to complete the dissertation research.

Interested applicants must complete the standard AMCAS application to the UAB School of Medicine and a short supplementary application to the M.D.-Ph.D. program. More information is available at http://www.uab.edu/medicine/mstp/admissions/admissions-process

Students who have initiated study in the University of Alabama School of Medicine or the UAB Graduate School may also apply to the MD/PhD Program. Please contact the MSTP Director for further information.

School of Nursing

Degree Offered: Ph.D.
Director (Ph.D.): Dr. Karen Heaton
Phone: (205) 996-9467
Email: kharp@uab.edu

Degree Offered: M.S.N.
Director (M.S.N.): Dr. Michele Talley
Phone: (205) 934-6647
Email: talleym@uab.edu

Degree Offered: D.N.P.
Director (D.N.P.): Dr. Linda Roussel
Phone: (205) 975-0249
Email: lroussel@uab.edu

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: Ph.D.
Director (Ph.D.): Dr. David Vance
Phone: (205) 934-7589
E-mail: devance@uab.edu

Ph.D. Program Description

The Doctor of Philosophy in Nursing is designed to prepare professional nurses as scholars, leaders, and researchers who will make a substantive contribution to the body of knowledge for the discipline of nursing and thereby improve health outcomes for those who receive nursing care. The
program of studies builds on preparation at the master’s or baccalaureate level. Graduates are prepared for culturally effective leadership roles in research and science, education, health policy, and health care. Doctoral students have the opportunity to develop expertise and conduct research in a selected content area. In addition to structured coursework, the program builds upon a mentorship model which recognizes that research skills are learned most effectively by working with a faculty research mentor who provides opportunities to practice the use of research techniques and the design and execution of original research within a focused program of research. In addition to core program course requirements, students complete at least 12 credits of required courses and electives in a selected content area. The PhD program was initiated in 1999. Initiated in 2000, the Post-Bachelor’s PhD Option allows individuals with baccalaureate degrees in nursing to complete the PhD in nursing without first obtaining a master’s degree.

Ph.D. Program Goals

The PhD curriculum prepares graduates to examine models, concepts and theories for their application in expanding the body of nursing and health care knowledge to: contribute to nursing science and health care through research that is disseminated in professional publications and presentations to the scientific communities and health care consumers; to conduct health care investigations based upon scientifically sound conceptual and methodological decisions about research designs, measures, and analytic methods; to reflect a consistent commitment to scientific integrity in the design, conduct, and dissemination of research; to initiate and collaborate in interdisciplinary research and scholarly endeavors that contribute to health outcomes in a culturally effective manner; and to assume leadership roles in research and scholarship.

Ph.D. Admission Requirements

- A Master of Science in Nursing (MSN) degree from an accredited institution in the United States, or approved by the Minister of Education for schools of nursing in foreign countries, equivalent to that in the UAB School of Nursing;
- A minimum grade point average of 3.0 overall (based on a 4.0 scale) on all graduate level coursework;
- Completion of GRE within the past 5 years;
- For applicants from non-English speaking countries: a satisfactory TOEFL score (minimum 550);
- Computer literacy and access is required, with proficiency in word processing and e-mail correspondence, as well as familiarity and experience with the Internet. It is recommended that each student have their own personal computer meeting the specifications of the School of Nursing. (Specifications are available from the School of Nursing website);
- Eligibility for licensure as a Registered Nurse in the United States;
- A written goal statement which evidences congruence between the applicant’s research interests and School of Nursing faculty research;
- At least one sample of independent written work (in English) that demonstrates the applicant’s scholarship potential. Representative examples include a paper, proposal, report, or publication;
- A current curriculum vitae;
- Three references from individuals with expertise to comment on the applicant’s capability for research and scholarship (for example, University professors, employers); at least one of the references must be from a doctorally prepared nurse, and;
- A personal interview.

Ph.D. Degree Requirements

Candidates for the degree of Doctor of Philosophy in Nursing must complete the following requirements:

- Coursework and experiences based on the student’s background and substantive area, with an overall GPA of 3.0 or better, and grades of B or better in all required courses on the approved program of studies;
- A comprehensive examination administered upon completion of an individualized program of studies; and
- A written dissertation demonstrating competence in research, individual inquiry, critical analysis using sophisticated statistical and/or qualitative techniques, and in-depth treatment of a health care problem in the selected content area. The investigation must make a genuine scientific contribution to knowledge, concepts, and theories in nursing. A final defense of the dissertation is required.

Postdoctoral Study

Postdoctoral studies in nursing are individually arranged based on a student’s learning needs in specific areas of interest that match the strengths of the graduate faculty. The focus of postdoctoral study is on expanding and extending the student’s knowledge base in nursing theory, practice, research, statistics and data management, and generally centers on a research effort of mutual interest to the student and faculty mentor.
Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: D.N.P.
Director (D.N.P.): Dr. Linda Roussel
Phone: (205) 975-0249
E-mail: lroussel@uab.edu

D.N.P. Program Description

The D.N.P. is a practice-focused terminal degree to prepare graduates to practice at the highest level in specialty practice or to assume leadership positions in healthcare. Graduates of the DNP program will focus on providing care to populations and communities with an emphasis on improving quality and access to under served, diverse populations. The three components of the DNP are advanced clinical specialty practice, leadership, and practice inquiry. Graduates will employ abilities and skills in these areas to advocate for reasonable, rational, and data-driven health regulations, standards, and evidence-based practices; sustain collaborative and strategic relationships, promote innovative, effective health care programs; and form partnerships with diverse groups to address health disparities. In addition, graduates will be prepared to assume clinical faculty positions to address the critical nursing faculty shortage.

For most students, the Post-Master’s DNP curriculum will be a minimum of 34 credits, which includes the development of a practice or leadership focused project. This Scholarly Project is designed to synthesize scholarship in an advanced practice specialty or an area of healthcare leadership and serves as a capstone program experience. All courses are offered in a distance accessible format and students may develop the scholarly project under the direction of program faculty and onsite mentors. Applications will be accepted twice a year for the summer or fall term, to either a full or a part-time cohort. Students enrolled in the DNP program will be required to come on campus between the first and second year for a two to three day intensive experience.

D.N.P. Program Goals

The D.N.P. program of study is designed to prepare nurses who: evaluate policy, care delivery, and organizational systems for current and future health care needs; translate scientific, theoretical, and ethical principles into healthcare for individuals, families, and populations; incorporate knowledge of current and emerging health technologies to improve care delivery and organizational systems; advocate for social justice, equity, and ethical policies in healthcare; Demonstrate intra and inter-professional collaboration to address health disparities and to improve health care quality across diverse populations and cultures; assume complex leadership roles to advance clinical practice and healthcare delivery at the organizational and systems level and to improve health outcomes of individuals and populations, and assume complex leadership roles to advance clinical practice and healthcare delivery at the organizational and systems level and to improve health outcomes of individuals and populations.

D.N.P. Admission Requirements

Admission is competitive, based on an assessment of the ability of the applicant to complete the program of studies and on the appropriateness of the requested program of studies to the applicant’s stated goals. Because only a limited number of applicants can be accommodated in a given academic year, some well-qualified applicants may not be offered admission. In cases where there are more qualified applicants than slots available, the School of Nursing accepts the most qualified applicants.

Eligible candidates for admissions will provide evidence of:

- A master’s degree in an area of advanced nursing practice (Nurse Practitioner, Clinical Nurse Specialist, Nursing Administration, or Nurse Anesthetist) from a regionally accredited institution; equivalent to that in the UAB School of Nursing;
- Current professional certification as an Advanced Practice Nurse (if applicable);
- A graduate grade point average of at least 3.0 overall (based on a 4.0 scale) or on the last 60 hours of earned credit;
- Three favorable completed Evaluation Forms from persons who have knowledge of the applicant’s potential for success for graduate nursing studies and advanced practice nursing;
- Evidence of a license as a (1) Registered Nurse and (2) Advanced Practice Nurse or eligibility in the state in which the applicant plans to practice. Both documents must be notarized if the applicant is not a licensed nurse in Alabama;
- Confirmation of completed clinical hours in advanced specialty;
- Personal goal statement that is congruent with the program goals (300 words or less);
- Resume or Curriculum Vitae; and
- A personal interview by phone or in person with a School of Nursing faculty member or designee.

D.N.P. Degree Requirements

Candidates for the DNP degree must complete the following requirements: Completion of all coursework and clinical experiences based on the student’s Program of Studies, with an overall GPA of 3.0 or better, and grades of B or better in all required courses in the School of Nursing.

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.S.N.
Director (M.S.N.): Dr. Michele Talley
Phone: (205) 934-6647
E-mail: talleym@uab.edu

M.S.N. Program Description

The MSN curriculum is designed to prepare nurses for advanced generalist or specialty practice, advanced nursing roles, and doctoral study in nursing. Preparation for advanced study in nursing at the MSN level is available in a variety of specialties and advanced roles including Nurse Practitioner, Nurse Educator, Nursing Informatics, Nursing and Health Systems Administrator, and Clinical Nurse Leader. Students are admitted to master’s study during the fall and spring terms. All nursing core courses and the majority of the master’s specialties are offered in the distance accessible format. The total number of clinical hours required varies depending on the option that is selected. Students must meet the full-time relevant clinical practice requirement of the specialty and have a current RN license in the state in which they will do their clinical practice prior to enrolling in the advanced practicum courses. Because only a limited number of applicants can be accommodated in a given academic year, some well-qualified applicants may not be offered admission. In cases where there are more qualified
applicants than slots available, the School of Nursing accepts the most qualified who apply.

Non-Degree Options at the MSN Level

Post MSN Nurse Practitioner Specialties MSN graduates who wish to take a designated program of study in preparation for sitting for one of the nurse practitioner certification examinations may apply for non-degree graduate status. This category is called the Post MSN Nurse Practitioner Option. Applicants for the Post MSN NP Option are considered on an individual basis, depending on NP practice experience and previous coursework. Applicants that are determined to be ineligible for the Post MSN NP Option will be encouraged to apply for a second MSN degree.

Teaching Certificate for Post BSN Applicants- Additionally, applicants at the post-baccalaureate level may choose to seek certification to prepare for the faculty role.

Clinical Research Management Certificate option that allows both nursing students and non-nursing applicants to pursue a Clinical Research Management certificate (paper application).

Registered Nurse First Assist (RNFA) Certificate for Post-Baccalaureate Applicants- A Registered Nurse First Assistant (RNFA) is prepared to practice in a variety of acute or critical care settings. The RNFA, in collaboration with the surgeon, provides continuous and comprehensive patient care throughout the perioperative period. (on-line application)

M.S.N. Program Goals

The MSN program of study is designed to prepare nurses who: synthesize research, theoretical formulations, and principles of scientific inquiry to provide evidence-based practice; assume leadership in managing and evaluating continuous quality improvement processes; use information systems/technology to evaluate programs of care, outcomes of care and care systems; advocate and implement health care policies that improve access, equity, efficiency, and social justice in the delivery of health care; design innovative educational programs for patients, nursing staff, and nursing students using teaching and learning principles; provide ethical, culturally sensitive care in an advanced nursing role independently and collaboratively with professionals from multiple disciplines; monitor the quality of one’s own nursing practice based on professional practice standards and relevant statutes and regulations; and apply theories and principles of marketing, economics, consultation, management, and leadership to comprehensively perform an advanced nursing role.

M.S.N. Admission Requirements

Requirements for admission for the MSN degree include the following:

- BSN degree from a regionally accredited institution, equivalent to the one offered by the School of Nursing, UAB;
- Cumulative grade point average of at least 3.0 on a 4.0 scale or on the last 60 semester hours; (Graduates of baccalaureate degree programs in countries other than the United States must have their baccalaureate degree transcripts evaluated by the Educational Credential Evaluators, Inc. OR The World Education Services Organization);
- Combined score of 297 on verbal and quantitative sections of the GRE; or score of 410 on the MAT; or score of 480 on the GMAT; Test scores submitted to UAB from the GRE, GMAT, or MAT must not be over 5 years old. Applicants with a 3.2 GPA or better may waive the Test Score requirement if they meet the criteria, please see: GRE/ GMAT/MAT Waiver Process for degree seeking MSN students;
- International students must achieve a TOEFL examination score of at least 550; and
- Three (3) letters of professional reference attesting to the applicant’s potential for graduate study.

M.S.N. Degree Requirements

Candidates for the MSN degree must complete the following requirements: Completion of all coursework and clinical experiences based on the student's Program of Studies, with an overall GPA of 3.0 or better, and grades of B or better in all required courses in the School of Nursing.

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>M.S.N.</th>
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<tr>
<td>Director (A.M.N.P.):</td>
<td>Dr. Jennan Phillips</td>
</tr>
<tr>
<td>Phone:</td>
<td>(205) 996-9829</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:japhil@uab.edu">japhil@uab.edu</a></td>
</tr>
</tbody>
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A.M.N.P. Program Description

The Accelerated Master’s Entry to Nursing Pathway (AMNP) is an alternate pathway into the existing master’s in nursing (MSN degree) for applicants who have a bachelor’s degree in a field other than nursing, who are not registered nurses, and who seek MSN preparation.

A.M.N.P. Admission Requirements

Admission is based on the applicant’s academic record and all application materials at the time of the application deadline. *All grades (UAB and other colleges/universities) from previous college course work must be posted on applicant’s UAB transcript by the application deadline. Courses in progress must be validated with a letter from the college or university students are attending.

- Applicants must have earned a minimum of a baccalaureate degree from a regionally accredited college/university prior to beginning classes.
- Upon receipt of ALL official transcripts, course work will be evaluated for advisement purposes regarding AMNP Foundational Courses.
- GPA- The minimum cumulative AND foundational GPA for all AMNP applicants is 3.0 at the time of application.
- Combined score of 297 on verbal and quantitative sections of the GRE; or score of 410 on the MAT; or score of 480 on the GMAT; Test scores submitted to UAB from the GRE, GMAT, or MAT must not be over 5 years old.
- International students must achieve a TOEFL examination score of at least 550;
- Three (3) letters of professional reference attesting to the applicant's potential for graduate study.
- A resume, outlining health care interest/experience, campus/community involvement, leadership and employment. Resumes should not be more than one page in length. 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). Completion of a nursing skills course does not meet this criterion.

- Interviews: Due to the competitive nature, not all candidates that qualify for admission will be invited for interviews. Applicants will be notified within a month of the application submission deadline if they will be invited to participate in the interview round for continued consideration for admission. You will be given ample time to plan for a trip to campus if you are selected to be interviewed. Students will be notified within a month after the interviews of an admission decision.

A.M.N.P. Degree Requirements

The Program is divided into two phases: (I) the Pre-licensure phase and (II) the Master of Science in Nursing, MSN, specialty phase. Students in the Phase I must be prepared to dedicate 40 hours or more a week to the coursework and clinical for this program. Students find that it is not feasible for them to work while completing Phase I of this program. This is not a distance accessible program. Students must successfully complete Phase I and Phase II of the program to earn a degree in nursing.

Phase I: The pre-licensure phase: 50 Credits, 1395 contact hours

Phase I consists of 12 months of full time study during which students complete the required courses and clinical experiences equivalent to a BSN degree in preparation to apply for licensure as a registered nurse. While this will be an intense learning experience, students will emerge with the knowledge and skills required to function as a registered nurse. Upon successful completion of Phase I requirements, the University Registrar at UAB will send a certified letter to the Alabama Board of Nursing stating that students have successfully completed requirements equivalent to a BSN degree and are eligible to take the National Certification Licensure Exam for RNs (NCLEX-RN). Students who successfully complete the NCLEX-RN may subsequently apply for licensure and subsequently apply for employment as a Registered Nurse.

Phase II: The Master of Science Specialty Phase:

Phase II consists of four or more semesters of part time study via distance education through the School of Nursing and clinical work as a registered nurse. The typical programs of study are listed on each of the specialty track’s individual fact sheet. The spring admission into a master’s specialty track will provide you with an estimate length to complete your Master of Science in Nursing degree. Successful completion of Phase II leads to a Master of Science in Nursing degree (MSN) with eligibility to take a board certification exam in most specialties. Only after successful completion of a board certification exam may the RN use the corresponding designation as part of their professional title.

A.M.N.P. Program Goals

The MSN program of study is designed to prepare nurses who: synthesize research, theoretical formulations, and principles of scientific inquiry to provide evidence-based practice; assume leadership in managing and evaluating continuing quality improvement processes; use information systems/technology to evaluate programs of care, outcomes of care and care systems; advocate and implement health care policies that improve access, equity, efficiency, and social justice in the delivery of health care; design innovative educational programs for patients, nursing staff, and nursing students using teaching and learning principles; provide ethical, culturally sensitive care in an advanced nursing role independently and collaboratively with professionals from multiple disciplines; monitor the quality of one’s own nursing practice based on professional practice standards and relevant statutes and regulations; and apply theories and principles of marketing, economics, consultation, management, and leadership to comprehensively perform an advanced nursing role.

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

| Degree Offered: | M.S.N. |
| Director (Nurse Anesthesia): | Dr. Susan P. McMullan |
| Phone: | (205) 934-6587 |
| Email: | susanpmcm@uab.edu |
| Website: | www.uab.edu/na |

The Nurse Anesthesia program prepares the registered nurse in all aspects of nurse anesthesia practice at the graduate level. The sequence of student coursework combines the knowledge of basic health sciences, scientific methodology in anesthesia, and advanced preparation to include a state-of-the-art scientific paper. Completion of the prescribed coursework and clinical practice comprise the requirements for the degree. The graduate is eligible to take the National Certification Examination, which, upon passing, allows them to practice as a certified registered nurse anesthetist.

The Nurse Anesthesia Program has received a ten-year accreditation in 2010 by the Council on Accreditation (COA) of Nurse Anesthesia Programs.

Regional Clinical Sites

Students in the Nurse Anesthesia Program (NAP) at the University of Alabama at Birmingham (UAB) are admitted to one of 5 program components as selected by the student in their application. Students from all components attend classes on campus at UAB for the first ten months. The remainder of the program (clinical rotations) are based at the student’s corresponding component site.

Alabama:

- Birmingham
- Dothan
- Huntsville
- Montgomery
- Tuscaloosa

Professional Program Admission Requirements

Qualified candidates are graduates from an accredited registered nursing program with a baccalaureate degree in nursing. All coursework towards a BSN must be completed by December prior to the start of the Nurse Anesthesia program the following August. Applicants are required to provide proof of a valid professional RN license in the U.S. Only candidates with at least one year experience as an RN in a critical care
setting are considered for admission. Acceptance will be based upon the student's academic ability, work experience, and aptitude for a career in nurse anesthesia. The candidate is expected to satisfy the following requirements:

- a minimum cumulative grade point average of 3.0 (A = 4.0),
- a minimum cumulative grade point average of 3.0 in science prerequisites,
- a grade of C or better in each prerequisite course,
- all sections of the GRE must be completed prior to application (verbal reasoning, quantitative reasoning, and analytical writing)
- a personal interview with the selection committee, and
- 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.

Professional Program Prerequisites
(courses listed in semester credit hours):

- Anatomy (3-4 semester credit hours)
- Physiology (3-4 semester credit hours)
- Microbiology (3-4 semester credit hours)
- College Chemistry (3-4 semester credit hours)
- Descriptive Statistics (3 semester credit hours)

Application Procedure

Applicants interested in the Nurse Anesthesia Program at University of Alabama at Birmingham (UAB) Nurse Anesthesia should apply through NursingCAS. NursingCAS is the online, centralized application service for nursing programs. Visit www.nursingcas.org and click “Apply Here” to initiate your application. And then click on “Create Account” and complete the required fields in order to start your application. View this short instructional video on how to complete a NursingCAS application.

- Early Decision Application Deadline: June 1st

The UAB Nurse Anesthesia Program has added an early decision application cycle. Applicants with a desire to attend the UAB Nurse Anesthesia Program should submit the application with all required materials by June 1st for matriculation in Fall of the following year. The screening process for early decision is more stringent and only a few will be chosen. However, applications not chosen for early decision will automatically roll over to the regular admission cycle in September without penalty. If the application rolls over to the regular admission cycle, only applicable changes to the application need to be submitted by September 1st and no additional application fees will be assessed.

Criteria for acceptance: applicants with a desire to attend UAB Nurse Anesthesia Program, otherwise the criteria used for early acceptance is the same as for the regular application cycle though only the top candidates will be selected for the early decision cycle.

Criteria for maintaining status: early acceptance is contingent on completing one year of ICU experience; other contingencies may be assigned on an individual basis.

Professional Program Application Deadline

- June 1st for early decision (August for fall following year)
- July - Notification of interviews, interviews, and notification of decision
- September 1st for regular admissions cycle

- November - Notification of interview
- December through February - interviews
- Decision notification two weeks after interview
- August - Students begin the program fall semester

UBA Nurse Anesthesia Program Supplemental Application

GPA Calculation Spreadsheet (MAC user please contact Ms. Stacey Smith (205) 934-7412, staceysmith@uab.edu)

Applicants are strongly encouraged to complete the GPA calculation spreadsheet and mail with your supplemental application.

Nurse Anesthesia Curriculum

The Nurse Anesthesia Program begins in the fall semester of each year. It comprises 67 semester hours of didactic instruction and 45 semester hours of clinical practicum and requires 27 months of full-time commitment. Students complete all foundation courses before beginning the clinical practicum, which starts after the first (ten) months of enrollment. The curriculum does not permit enrollment on a part-time basis.

Deadlines

Note: See summarized fact sheet for experience requirements.

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<th>Entry Date</th>
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<tr>
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</tr>
<tr>
<td>Fall 2015</td>
<td>June 1, 2014</td>
<td>Early decision</td>
</tr>
</tbody>
</table>

Funding

The School of Nursing at UAB has excellent scholarship, traineeship, fellowship and loan programs in which many students participate. Please visit "funding" for more information.

Outcomes

Nurse Anesthesia Clinical Education

The Nurse Anesthesia Program not only provides students with coursework designed to learn the skills they need, the program also focuses on the theoretical and clinical aspects of anesthesia. Students spend much of their time in clinical settings receiving valuable experience.

Clinical experiences give students hands-on practice in the field of anesthesia. After their clinical experiences, nurse anesthesia graduates can:

- evaluate and assess patients pre, post, and intraoperatively;
- plan the anesthetic management and immediate pre and post-anesthesia management;
- develop and implement an appropriate anesthesia plan designated for patients of all ages with a variety of pathological conditions;
- recognize emergency patient conditions and perform skills required during emergency life support situations; and
- recognize, evaluate, and prevent anesthesia complications.
Nurse Anesthesia students participate in several clinical assignments:

1. First year students will receive their first assignments in May during their first year. The first schedule is designated as the summer semester schedule (first year student schedule) and extends from July through August.
2. The second clinical schedule (fall semester schedule) extends from September through October.
3. The second year clinical rotation schedule covers a 12-month period that begins in November and ends in October.
4. One last schedule is made in September or October of the last semester in the program. This lists where graduate students will finish their clinical education during the month of November. Some students request this assignment be the site where they have accepted employment. A priority is placed on these requests and all attempts are made to fulfill them.

Graduate students who have begun their clinical rotations are designated on most program forms as SRNAs (student registered nurse anesthetists). SRNAs at clinical sites are under the direction of the Clinical Coordinator. The Clinical Coordinator is a CRNA clinical faculty who serves as the principal contact person for the program and is in charge of the SRNAs clinical training at a particular clinical site.

Clinical Coordinators, CRNAs and Anesthesiologists also serve the students by:

- being available to render clinical assistance in the operating room suite or other areas where anesthesia services are required;
- apprising the student of clinical responsibilities;
- serving as a role model; and
- providing evaluation and feedback to the students.
- providing a variety of clinical rotations within the facility

Clinical rotations are adjusted in a manner that will address individual student needs. Students cannot be assigned to all affiliates, but the program will attempt to provide each student with equal types of clinical experience.

School of Optometry

Dean: Kelly K. Nichols, OD, MPH, PhD

Founded in 1969, The UAB School of Optometry (UABSO) earned the notable distinction of being the first optometry school to be located on an academic medical center campus. The School’s first Doctor of Optometry (O.D.) degrees were awarded in 1973 and since that time, the School has grown to include graduate degrees in Vision Science, post-doctoral optometry residency education, and the highly-unique OD/ MBA dual-degree program. With relatively small class sizes of less than 50 students, an integrated medical/professional program for 1st year students, and an esteemed reputation in vision science research, UABSO continually remains positioned among the top optometry schools in the nation.

Vision Science

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

<table>
<thead>
<tr>
<th>Degree Offered</th>
<th>PhD, MS, OD/MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Director</td>
<td>Michael Twa, OD, PhD</td>
</tr>
<tr>
<td>Program Manager</td>
<td>Stefanie B. Varghese, PhD</td>
</tr>
<tr>
<td>Phone</td>
<td>(205) 934-6743</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:sbvarghese@uab.edu">sbvarghese@uab.edu</a></td>
</tr>
<tr>
<td>Web site</td>
<td><a href="http://www.uab.edu/vsgp/">http://www.uab.edu/vsgp/</a></td>
</tr>
</tbody>
</table>

Program Information

Vision Science is a multidisciplinary field where basic scientists and clinicians focus on the discovery of new knowledge that will further our understanding of the eye and vision. This discovery includes virtually every scientific discipline where advances come from biologists, neuroscientists, optical engineers, epidemiologists, psychologists, optometrists, physicians and others.

The Vision Science Graduate Program at the University of Alabama at Birmingham provides comprehensive training for the next generation of leaders in vision science. Your decision to pursue graduate training in this program will place you at the center of one of the nation’s top biomedical research institutions and will immerse you in collaborative multidisciplinary research environment that is today’s model for biomedical research leadership. Moreover, our training environment will present opportunities for creative career paths such as dual degree programs with business, law and public health that will allow you to position yourself for a career as unique as your individual talents and interests.

Admission and Financial Aid

Applications for admission to the graduate program in vision science are reviewed by the Vision Science Graduate Program Admissions Committee. Qualified students admitted to the program may receive financial assistance in the form of annual stipends, tuition support, scholarships, and student health insurance.

Master of Science Degree

Two calendar years are generally required to complete the Master of Science degree (MS) in the Vision Science Graduate Program. Each candidate must complete a minimum of 30 hours of credit: 24 credit hours in vision science and 6 credit hours in related graduate courses. In addition, the candidate must successfully complete and defend a research thesis.

Admission Requirements:

- GRE Required (subject tests are optional)
- TOEFL or IELTS tests required for international students (see program website for minimum scores)
- Undergraduate GPA of 3.0 on a 4.0 scale (B average)
- Strong background in the biological, physical or health sciences
- Three letters of recommendation

Doctor of Optometry / Master of Science—Dual Degree

Selected students in the UAB optometry professional program are encouraged to combine the clinical doctorate degree with additional research training in Vision Science. Financial assistance is available for qualified students. Potential candidates should have completed an undergraduate degree in a biological, physical, or health science field.
Admission Requirements:
- See Master Degree Requirements
- OAT scores can be used in lieu of GRE requirement

Doctor of Philosophy Degree

Doctoral research training leading to the PhD degree in vision science is based upon completion of graduate course work, a qualifying examination, research accomplishments, and successful defense of a dissertation. There is considerable flexibility in the coursework for the PhD in vision science. Each student is required to take the first-year core curriculum for their respective track, as well as courses in statistics and the ethical conduct of research. Students then take three additional courses, selected by the student in consultation with their academic advisor, which can include a wide range of interdisciplinary topics. Other graduate level courses can be substituted so that students can take maximum advantage of offerings in other programs at UAB. Individuals with previous clinical training will have opportunities for further clinical development and research integration. Students are also required to gain teaching experience.

Admission Requirements:
- GRE Required (subject tests are optional)
- TOEFL and/or IELTS tests required for international students (see program website for minimum scores)
- Undergraduate GPA of 3.0 on a 4.0 scale (B average)
- Strong background in the biological, physical or health sciences
- Three letters of recommendation

Additional Information

Deadline for Entry Term(s): Summer and Fall (No Spring admission)
Deadline for All Application Materials to be in the Graduate School Office: January 15th
Number of Evaluation Forms Required: Three

For detailed information, contact the graduate program manager, Dr. Stefanie Varghese, UAB School of Optometry Vision Science Graduate Program, HPB 516, 1720 2nd Ave S., Birmingham, AL 35294-4390 (office location: Henry Peters Building, Room 516, 1720 University Blvd.). Telephone 205-934-6743 E-mail sbvarghese@uab.edu Web http://www.uab.edu/vsgp/

School of Public Health

About the School of Public Health

In 1964 President Lyndon Johnson said, "We have the power to shape the civilization that we want. But we need your will, your labor, your hearts, if we are to build that kind of society." He was, of course, speaking about the "Great Society" initiative that sought to eliminate the oppression of poverty for millions who wanted to share in the American dream. We have learned much in the intervening forty years - that good intentions and money don't often solve complex social and cultural dilemmas; that the technology genie will not go back into the bottle; that we are milliseconds from every nation, every person on the globe.

More than any other discipline, public health has the power to help shape civilization in the 21st century. The UAB School of Public Health offers you the opportunity to join a vibrant community of professionals and scholars whose global-class research and scholarship is exploring complex problems like HIV/AIDS, obesity, and drugs in creative and unusual ways. A graduate degree in public health gives you the ability to tackle head-on the most complicated and thorny issues of our times, the tools to create solutions for those issues, and a uniquely global perspective.

The challenges for the future of public health find an ideal home at UAB. The interests of our faculty and staff extend from community organization in the Black Belt regions of rural Alabama to understanding the dynamics of the HIV epidemic in Sub-Saharan Africa. Few universities offer the almost limitless interdisciplinary collaborative atmosphere available to students at the UAB School of Public Health.

The potential for our students to develop practical and meaningful internship experiences grows daily through partnerships with state and local government agencies, local businesses and industry, and a global network of governmental and non-governmental organizations. The faculty and staff at the School are dedicated and deeply committed to educating and preparing the most well-educated and qualified public health graduates imaginable for the 21st century. We look forward to welcoming you as a student in the School of Public Health. Our dynamic, robust, and exciting programs are a great beginning for launching a truly satisfying career.

Contact Information

Dean: Max Michael, MD
Associate Dean of Graduate Education: Peter Ginter, PhD
Assistant Dean of Undergraduate Education: Suzanne E. Judd, PhD
Email: soph@uab.edu
Phone: (205) 934-4993
Website: www.uab.edu/PublicHealth

Admission Requirements

Our graduate programs in biostatistics, environmental health, epidemiology, health behavior, and health care organization and policy offer students intellectual tools to address complex problems with a global perspective. Whether you are looking for a highly-rated program that provides the opportunity to work next to leading researchers or a graduate student looking for information related to your studies, we have everything you need. Click the applicable link below for information related to your particular need.

The UAB School of Public Health uses SOPHAS, the Centralized Application Service for Public Health for some of its programs. The Application Fee is $120.00 for the first school that the student applies to. See our Application Process web page for further information.
The University of Birmingham’s Graduate School uses **ApplyYourself** as its centralized application management solution. The Application Fee for Apply Yourself for Domestic Students is $60.00. See our Application Process web page for further information.

Click here for more information.

### Additional Information

**Deadline for All Applications:**
- **US Applicants:** Fall - July 15
- **International Applicants:** Fall – May 15
- **US & International Applicants:** Spring - November 1
- **US & International Applicants:** Summer – April 1

**Doctoral Programs:** Varies by departments

**Entrance Test:**
http://www.soph.uab.edu/prospective/testing

**International Transcripts:**
International transcripts must be submitted to World Education Services (WES) or Educational Credential Evaluators (ECE) for an official course-by-course credential evaluation (document-by-document evaluations will not suffice).

**Number of Evaluation Forms Required:** Three

**SOPH Catalog:** www.soph.uab.edu/catalog

### DEGREES OFFERED

#### Master of Public Health (M.P.H.)

Prospective students should click here to obtain specific admission requirements on how to apply.

- **Biostatistics Concentrations:** Biostatistics
  - Accelerated Program Industrial Hygiene
  - Environmental Health & Toxicology (also online)
  - Fast Track MPH in EHS
  - Industrial Hygiene (also online)
  - Occupational Health & Safety (also online)
- **Epidemiology Concentrations:** Epidemiology
  - Fast Track MPH in EPI
- **Health Behavior Concentrations:** Health Behavior (also online)
  - Fast Track MPH in HB
  - Health Behavior/Nursing
  - MPH/Psychology PhD
  - MPH/Sociology PhD
- **Health Care Organization and Policy Concentrations:** Fast Track MPH in HCOP
  - General Theory & Practice

#### Master of Science in Public Health (M.S.P.H.)

Prospective students should click here to obtain specific admission requirements on how to apply.

- **Biostatistics Concentrations:** Clinical and Translational Science (BST)
- **Environmental Health Concentrations:** Environmental Health & Toxicology
  - Industrial Hygiene
- **Epidemiology Concentrations:** Clinical and Translational Science (EPI)
  - Pharmacoepidemiology and Comparative Effectiveness Research
- **Health Behavior Concentrations:** Clinical and Translational Science (HB)
- **Health Care Organization & Policy Concentrations:** MSPH/ Psychology PhD (UAB and UA)
  - Outcomes Research
- **General Track:** MSPH/Doctor of Medicine (UAB)

#### Master of Science (M.S.)

Prospective students should click here to obtain specific admission requirements on how to apply.
Interdisciplinary Programs

Biostatistics Concentration: Biostatistics

**Doctor of Philosophy (Ph.D)**

Prospective students should click here to obtain specific admission requirements on how to apply.

Biostatistics Concentration: Biostatistics

**Doctor of Public Health (Dr.P.H.)**

Prospective students should click here to obtain specific admission requirements on how to apply.

Health Care Organization & Policy Concentrations: Public Health Management

- Maternal and Child Health Policy
- Outcomes Research

For detailed information about the graduate programs offered, please consult the School of Public Health website or visit the UAB School of Public Health:

Ryals Public Health Building
Room 130, Student Services
1665 University Boulevard
Birmingham, AL 35294-0022
**Telephone:** 205-934-4993
**E-mail:** soph@uab.edu
**Website:** [www.uab.edu/PublicHealth](http://www.uab.edu/PublicHealth)
**Facebook:** [www.facebook.com/UABSchoolofPublicHealth](http://www.facebook.com/UABSchoolofPublicHealth)

**Coordinated MPH / Dentistry (DMD) Program**

Students must be admitted to the UAB School of Dentistry before being considered for the Coordinated DMD/MPH Program. For more information about the Dentistry Program click here.

**Purpose**

To provide the opportunity for students in the UAB School of Dentistry to pursue public health education during their dental school training in a flexible format that accommodates their academic schedule while assuring critical instruction in the core areas of public health and in specific competency areas considered essential to dentists with public health training.

**Admissions**

Students must be admitted to the UAB School of Dentistry DMD program before being considered for the DMD/MPH. Once a student has obtained admission to the dental school, we will consider them to have met our basic admission criteria. Some students may elect to apply to both programs at the same time, others after they have matriculated to dental school. In either case, we will ask students to have the dental school forward their application packet to us.

**Schedule and Graduation**

It is expected that both programs will be completed within five years, at which time both degrees will be awarded. In the event the student fails to complete the requirements for the DMD degree but wishes to obtain the MPH, his or her background and other credentials will be reviewed by the department of interest to the student and if an appropriate MPH degree program can be identified, additional degree requirements will be determined.

**MPH / DMD Curriculum**

The curriculum is designed to be integrated, to a limited extent, in an effort to enhance recruitment of students into this coordinated program while still meeting the instructional objectives of each degree. Below are the course required for the MPH degree, for information about the DMD curriculum please click here.

**Requirements**

<table>
<thead>
<tr>
<th>Core Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST 601 Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>ENH 600 Fundamentals of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>EPI 600 Intro to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HB 600 Social and Behavioral Science Core</td>
<td>3</td>
</tr>
<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUH 697 Practice Placement / Internship</td>
<td>1</td>
</tr>
<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
<td>1</td>
</tr>
<tr>
<td>SOPH Required Course</td>
<td></td>
</tr>
<tr>
<td>PUH 627 Writing &amp; Reviewing Research for MPH Candidates (this course is waived)</td>
<td>3</td>
</tr>
<tr>
<td>or GRD 727 Writing &amp; Reviewing Research</td>
<td></td>
</tr>
<tr>
<td>PUH Electives</td>
<td>10</td>
</tr>
<tr>
<td>DMD Course Options</td>
<td>12</td>
</tr>
<tr>
<td>DENT 1140 Evidence-Based Dentistry</td>
<td></td>
</tr>
<tr>
<td>DENT 3220 Community Dentistry</td>
<td></td>
</tr>
</tbody>
</table>
To View Application Requirements: www.soph.uab.edu/graduate/prospective/admissions/us

Entry Into Program

Students may enter the MPH at any time during enrollment in the DVM program, but there must be evidence that the MPH coursework will be completed prior to completion of the DVM. A student who is already enrolled in a UAB’s MPH program who is subsequently accepted to Auburn University’s DVM program may apply to transfer to the DVM/MPH program track. Alternatives to this arrangement will be considered by the student and his or her advisor. It is expected that both programs will be completed within five years, at which time both degrees will be awarded. The Associate Dean will review the application and make an admission decision. The Associate Dean will serve as the advisor for all DVM/MPH students.

To apply to the UAB School of Public Health MPH Program, interested students should submit their application using The University of Alabama at Birmingham’s web-based system Apply Yourself.

Coordinated MPH / DVM Program

Students must be admitted to the Auburn University’s Veterinary Medicine program before being considered for the Coordinated DVM/MPH Program. For more information about the DVM Program please contact the College of Veterinary Medicine at Auburn University; www.vetmed.auburn.edu, phone (334) 844-2685 or email admiss@vetmed.auburn.edu

Note: A student must complete 30 hours of coursework at UAB School of Public Health and 12 hours are shared with the DVM program for a total of 42.

Dropping Out of the Program Prior to Completion

Students MUST complete both degrees to successfully complete the program. Students must meet with the MD/MPH committee to request a leave or to drop out of the program.

Coordinated MPH / MD Program

Admissions

Students must be admitted to the UAB School of Medicine (SOM) MD program before being considered for the Coordinated MD/MPH Program. Interested students will have the School of Medicine forward their application materials to the School of Public Health (SOPH), submit to the Graduate School a SOPH application, and career goals statement. Students may elect to apply to both programs at the same time, to the MPH program after they have matriculated to medical school or, if accepted to the SOM after enrolling in the MPH, the student may transfer to the coordinated degree. The Associate Dean will review the application, make an admission decision, and serve as the advisor for all MD/MPH students.

MD/MPH Four-Year and Five-Year Programs

The Schools of Medicine and Public Health have collaborated to provide two programs to allow medical students to earn their Master’s in Public Health (MPH): a four-year program and a five-year program.

The Five-Year Program

Students following the five-year program take a year off of medical school to complete MPH coursework. Students can elect to complete MPH coursework before, during, or after medical school. Students can complete some courses online and can choose an area of concentration or pursue a general MPH. You can apply to the five-year program at any time during medical school.

The Four-Year Program

Students can follow a program that allows them to earn their MPH during the four years of medical school. There are two options for this program: Primary Care Scholars program or a general MPH. Students must enroll in the four-year program the summer before the first year of medical school.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Requirements</td>
<td></td>
</tr>
<tr>
<td>BST 601 Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>ENH 600 Fundamentals of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>EPI 600 Intro to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>or EPI 610 Principles of Epidemiologic Research</td>
<td></td>
</tr>
<tr>
<td>HB 600 Social and Behavioral Science Core</td>
<td>3</td>
</tr>
<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
<td>1</td>
</tr>
<tr>
<td>PUH 697 Practice Placement / Internship (DVM/MPH focus)</td>
<td>3</td>
</tr>
<tr>
<td>PUH Required Course</td>
<td></td>
</tr>
<tr>
<td>PUH 627 Writing &amp; Reviewing Research for MPH Candidates (this course is waived)</td>
<td>3</td>
</tr>
<tr>
<td>or GRD 727 Writing &amp; Reviewing Research</td>
<td></td>
</tr>
<tr>
<td>Elective courses (PUH)</td>
<td>10</td>
</tr>
<tr>
<td>Credits from DVM at Auburn University</td>
<td>12</td>
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<tr>
<td>VMED 5030/ Public Health and VMED 5250/Principles of Infectious Diseases.</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>42</td>
</tr>
</tbody>
</table>
PUH 695  The Public Health Integrative Experience  1

PUH Required Course

PUH 627  Writing & Reviewing Research for MPH Candidates (this course is waived)  3
or GRD 727  Writing & Reviewing Research

PUH Electives  10
Credit from MD Curriculum  12
Total Hours  42

Note: A student must complete 30 hours of coursework at UAB School of Public Health and 12 hours are shared with the MD program for a total of 42.

Dropping Out of the Program Prior to Completion

Students MUST complete both degrees to successfully complete the program. Students must meet with the MD/MPH committee to request a leave or to drop out of the program.

Coordinated PhD/MPH Program

UAB Graduate Biomedical Sciences and School of Public Health

Purpose

To provide the opportunity for students in the Cell, Molecular and Developmental Biology Programs to pursue public health education during their school training in a flexible format that accommodates their academic schedule while assuring critical instruction in the core areas of public health and in specific competency areas that are considered essential to biomedical science professionals with public health training.

Admissions

We will utilize an expedited admissions process for these students to avoid excessive paperwork on their end as well as ours. Students must be admitted to the UAB Graduate School before being considered for the PhD/MPH. Once a student has obtained admission to the Cell, Molecular and Developmental Biology program, we will consider them to have met our basic admission criteria. Some students may elect to apply to both programs at the same time, others after they have already matriculated to school. In either case, we will ask students to have the graduate school forward their application packet to us. Applicants will be reviewed by the Academic Dean within the existing guidelines provided by the Admissions and Graduation Committee.

Schedule and Graduation

It is expected that both programs will be completed within five years, at which time both degrees will be awarded. In the event the student fails to complete the requirements for the PhD degree but wishes to obtain the MPH, his or her background and other credentials will be reviewed by the department of interest to the student and if an appropriate MPH degree program can be identified, additional degree requirements will be determined.

Curriculum

The curriculum is designed to be integrated, to a limited extent, in an effort to enhance recruitment of students into this coordinated program while still meeting the instructional objectives of each degree.

Requirements  Hours
Core Requirement  20 / 21

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BST 601</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>ENH 600</td>
<td>Fundamentals of Environmental Health Science</td>
</tr>
<tr>
<td>EPI 610</td>
<td>Principles of Epidemiologic Research</td>
</tr>
<tr>
<td>HB 600</td>
<td>Social and Behavioral Science Core</td>
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<tr>
<td>HCO 600</td>
<td>Introduction to Population Based Health Programs</td>
</tr>
<tr>
<td>PUH 697</td>
<td>Practice Placement / Internship</td>
</tr>
<tr>
<td>PUH 695</td>
<td>The Public Health Integrative Experience</td>
</tr>
</tbody>
</table>

PUH Required Course

PUH 627  Writing & Reviewing Research for MPH Candidates (this course is waived)  3
or GRD 727  Writing & Reviewing Research

PUH Electives  10

Biomedical Electives courses below  Select 12 hours of the approved Biomedical electives  12

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBS 703</td>
<td>Research Analysis &amp; Presentation</td>
</tr>
<tr>
<td>GBS 704</td>
<td>Introduction to Experimental Medicine</td>
</tr>
<tr>
<td>GBS 716</td>
<td>Grantsmanship and Scientific Writing</td>
</tr>
<tr>
<td>GBS 717</td>
<td>Methods and Scientific Logic</td>
</tr>
<tr>
<td>GBS 720</td>
<td>Genomic Structure and Function</td>
</tr>
<tr>
<td>GBS 722</td>
<td>GGS Bioinformatics</td>
</tr>
<tr>
<td>GBS 726</td>
<td>Advanced Medical Genetics</td>
</tr>
<tr>
<td>GBS 727</td>
<td>Advanced Human Genomics</td>
</tr>
<tr>
<td>GBS 749</td>
<td>Mitochondria in Health, Disease &amp; Toxicology</td>
</tr>
<tr>
<td>GBS 756</td>
<td>Cardiometabolic Disease Journal Club</td>
</tr>
<tr>
<td>GBS 757</td>
<td>Biology of Disease</td>
</tr>
<tr>
<td>GBS 768</td>
<td>Communicating Science: Reading, Writing and Presentation</td>
</tr>
<tr>
<td>GBS 770</td>
<td>Pathobiology of Cancer</td>
</tr>
</tbody>
</table>

Total Hours  42

Biostatistics

Prospective students should click here to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered:  M.P.H., M.S., M.S.P.H., Ph.D.
Department Chair:  David T. Redden, Ph.D.
Phone:  (205) 934-4905
E-mail:  bstgrad@uab.edu
Web site:  www.soph.uab.edu/bst
Department Contact:  Della Daniels
Department Contact Email:  ddaniel@uab.edu

The Department of Biostatistics at the University of Alabama at Birmingham (UAB) is one of five departments in the School of Public Health: Biostatistics, Environmental Health Science, Epidemiology, Health Behavior, and Health Care Organization and Policy.
Dr. David Redden is the Chair of the department, Dr. Nianjun Liu is the Director of Graduate Studies, and Ms. Della Daniel is the department liaison to the graduate program. The department currently has 17 faculty members, 48 full-time staff, and is organized into two sections: 1) The Section on Statistical Genetics (SSG) and 2) The Section on Research Methods and Clinical Trials (RMCT). Members of the department conduct research in statistical methodology and applications, as well as in fundamental problems of modeling in biological systems. Much of the department’s research is collaborative in nature involving projects from basic science, genetics, clinical medicine, public health, and other health-related areas, both within and outside of UAB. Grant support for faculty in the department fall into four broad areas: 1) applied grants involving the application of statistical methods to health-related issues, 2) statistical coordinating centers for large multi-center randomized clinical trials, 3) methodological grants advancing statistical techniques, and 4) training grants for preparing the next generation of statisticians.

The Department offers programs leading to the Doctor of Philosophy (PhD), Master of Science (MS), Master of Public Health (MPH), Master of Science in Public Health (MSPH), and a Certificate in Statistical Genetics (CSG). The MS and PhD degrees are offered through the Graduate School. The MPH and MSPH degrees are offered through the School of Public Health.

Admissions

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline for Entry Term(s):</td>
<td>US &amp; International Applicants Fall - May 1</td>
</tr>
<tr>
<td>Number of Evaluation Forms Required:</td>
<td>Three</td>
</tr>
<tr>
<td>Entrance Tests:</td>
<td>GRE (TOEFL and WES also required for international applicants whose native language is not English.)</td>
</tr>
<tr>
<td>SOPH Graduate Catalog:</td>
<td><a href="http://www.soph.uab.edu/catalog">www.soph.uab.edu/catalog</a></td>
</tr>
<tr>
<td>SOPH Admissions:</td>
<td><a href="http://www.soph.uab.edu/graduate/prospective">www.soph.uab.edu/graduate/prospective</a></td>
</tr>
</tbody>
</table>

School of Public Health’s Student Catalog

MPH in Biostatistics

The MPH degree in biostatistics is intended primarily for those who wish to acquire an MPH degree with an emphasis on statistical methodology. This can include individuals from decision-making positions in health care settings as well as those interested in data management, statistical analyses and interpretation, and presentation of analytical results. This degree can be completed in approximately 2 years. Note that the MPH does not require some of the theoretical courses required for the MS, and as such, it is not a direct route to prepare a student for a PhD. Students anticipating that they will wish to continue for a PhD in biostatistics are advised to pursue the MS rather than the MPH.

All international students must demonstrate proficiency in spoken and written English before graduation, through the Graduate School’s ESL Assessment. Dependent on the results of that assessment, the Graduate Program Committee may require additional course work in both written and/or oral English for students not showing proficiency upon arrival, or during any period of their graduate studies.

The University of Alabama at Birmingham
the same time. For those years during which at least one student needs to take the exam a second time, the exam may be offered in July at the discretion of the Graduate Program Committee (GPC). Students must be registered for at least 3 semester hours of graduate work during the semester in which the comprehensive examination is given.

The student must pass each part of the exam at the Masters level. If a student fails either part of the exam, one additional chance will be given to retake the part of the exam that was failed. A student who fails the qualifying exam more than once will be dismissed from the MS program. The student has the opportunity to appeal the decision of his/her dismissal. The Graduate School policies on dismissal from the program and appeal of dismissal are described in detail in the UAB Student Handbook.

Please note that receipt of an “A” in all individual courses may not constitute adequate preparation for this exam. The purpose of the qualifying exam is to test your ability to connect the information across courses, to choose appropriate analysis methods, and to display a working knowledge of the tools used in probability and inference.

**Masters Project**

Immediately after passing the MS Comprehensive examination, the student must form a research project committee consisting of at least 3 members, chaired by the research advisor. Upon successful completion of the project, the student must submit a final write-up of the research and present their work orally in a departmental seminar. It is strongly suggested that the write-up is such that it may lead to an article submitted for publication in the subject matter area. The date and time of the oral presentation will be advertised in the Ryals Building.

All students must be registered for a minimum of 3 credit hours of Non-Thesis Research (BST 698) during the semester in which you intend to graduate. When you are nearing completion of your research, you must file an Application for Degree with the Graduate School by the appropriate date during the semester in which you expect to graduate.

### Required Courses: MSPH in Biostatistics

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST 621</td>
<td>Statistical Methods I</td>
</tr>
<tr>
<td>BST 622</td>
<td>Statistical Methods II</td>
</tr>
<tr>
<td>BST 623</td>
<td>General Linear Models</td>
</tr>
<tr>
<td>BST 626</td>
<td>Data Management and Reporting with SAS</td>
</tr>
<tr>
<td>BST 626L</td>
<td>Data Management and Reporting with SAS Laboratory</td>
</tr>
<tr>
<td>BST 631</td>
<td>Statistical Theory I</td>
</tr>
<tr>
<td>BST 632</td>
<td>Statistical Theory II</td>
</tr>
<tr>
<td>BST 655</td>
<td>Categorical Data Analysis</td>
</tr>
<tr>
<td>BST 691</td>
<td>Pre-Doctoral Seminar Series (4 hours required for BST 691: Biostatistics Pre-doctoral Seminar Series)</td>
</tr>
<tr>
<td><strong>SOPH Requirement:</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>GRD ESL Assessment:</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Biostatistics Electives:</strong></td>
<td>6</td>
</tr>
<tr>
<td>BST 665</td>
<td>Survival Analysis</td>
</tr>
<tr>
<td><strong>Required Outside Electives:</strong></td>
<td>7</td>
</tr>
<tr>
<td>EPI 610</td>
<td>Principles of Epidemiologic Research</td>
</tr>
<tr>
<td><strong>Other Related Courses including BST 698:</strong></td>
<td>6</td>
</tr>
<tr>
<td>BST 698</td>
<td>Non Thesis Research (Minimum of 6 credit hours)</td>
</tr>
<tr>
<td><strong>Total Hours:</strong></td>
<td>46-49</td>
</tr>
</tbody>
</table>

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**Master of Science in Public Health (MSPH) in Clinical and Translational Science (CTSB)**

There is a growing interest in medical and other health science schools in developing the clinical research skills of faculty members and fellows. This interest has been fueled by increased support from the National Institutes of Health (NIH) to prepare such individuals to meet the demand for clinical investigators in the field. Locally, the Schools of Medicine and Public Health have combined efforts to create a training program for young faculty members and fellows from a variety of disciplines.

This program is a post-medical or other health science degree training program, aimed primarily at fellows and faculty members interested in developing skills required for clinical research. It is anticipated that this academic training will supplement extensive training in the content area in which the student is trained, and senior mentoring in the politics and policies of development and management. A graduate of this program will have the academic training to develop and lead independent research programs and projects. The program consists of a set of courses common to all students, plus research electives and focus elective courses that reflect the academic interest of the student. At this time, the program can accommodate students with specific interest in biostatistics (CTSB), epidemiology (CTE), and health behavior (CTSH). As a result, there will be some variation in the specific knowledge and skills acquired by each graduate. However, the primary learning objectives will apply to all students, irrespective of departmental affiliation. As such, graduates will be able to do the following upon completion of the program:

- design, conduct, and evaluate clinical research studies;
- understand issues of data collection and study management;
- follow appropriate policies and procedures relating to the utilization of human subjects in clinical research;
- demonstrate an understanding of the ethics of research on human subjects;
- prepare competitive applications for extramural research funding;
- prepare manuscripts for publication in the scientific literature; and
- critically evaluate published research.

### Required Courses: MSPH in Biostatistics

The MSPH in Clinical and Translational Science consists of a minimum of 41 credit hours. Of these, 14 hours are required, including 9 hours of specific biostatistics courses and 5 hours of specific epidemiology.
The PhD degree in biostatistics provides a balance between theory and application. In addition to providing students with an in-depth understanding of statistical theory and methodology, the main objectives of the program are to train students to become independent researchers, effective statistical consultants and collaborators in scientific research, and effective teachers.

All international students must demonstrate proficiency in spoken and written English before graduation, through the Graduate School’s ESL Assessment. Dependent on the results of that assessment, the GPC may require additional course work in both written and/or oral English for students not showing proficiency upon arrival, or during any period of their graduate studies.

**The MSPH Research Project**

The student, with the advice of his/her chosen MSPH project co-directors forms a small committee (minimum 3 members) to guide the research project. The committee co-chairs should consist of a faculty member from Biostatistics and an MD with experience in the area of clinical research. Upon successful completion of the project, the student must submit a final write-up of the research.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSPH Core Requirement:</td>
<td>14</td>
</tr>
<tr>
<td>BST 621  Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>BST 622  Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>BST 625  Design/Conduct Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>EPI 607  Fundamentals of Clinical Research</td>
<td>3</td>
</tr>
<tr>
<td>EPI 680  Topics in Clinical Research</td>
<td>2</td>
</tr>
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<td>SOPH Requirement:</td>
<td>3</td>
</tr>
<tr>
<td>GRD ESL Assessment:</td>
<td>3</td>
</tr>
<tr>
<td>Masters Research Selectives:</td>
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</tr>
<tr>
<td>BST 619  Data Collection and Management</td>
<td>3</td>
</tr>
<tr>
<td>BST 626  Data Management and Reporting with SAS</td>
<td>3</td>
</tr>
<tr>
<td>BST 626L Data Management and Reporting with SAS Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>ENH 650  Essentials of Environmental and Occupational Toxicology and Diseases</td>
<td>3</td>
</tr>
<tr>
<td>EPI 625  Quantitative Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 703  Special Topics in the Epidemiology of Chronic Disease</td>
<td>3</td>
</tr>
<tr>
<td>HB 624  Advanced Social and Behavioral Science Theory</td>
<td>3</td>
</tr>
<tr>
<td>HCO 677  Patient-Based Outcomes Measurement</td>
<td>3</td>
</tr>
<tr>
<td>Biostatistics Selectives:</td>
<td>9</td>
</tr>
<tr>
<td>Masters Project Research:</td>
<td>9</td>
</tr>
<tr>
<td>BST 698  Non Thesis Research</td>
<td>1-12</td>
</tr>
<tr>
<td><strong>Total Credit Hours:</strong></td>
<td>41 - 44 hours</td>
</tr>
</tbody>
</table>

School of Public Health’s Student Catalog

**PhD in Biostatistics**

All international students must demonstrate proficiency in spoken and written English before graduation, through the Graduate School’s ESL Assessment. Dependent on the results of that assessment, the GPC may require additional course work in both written and/or oral English for students not showing proficiency upon arrival, or during any period of their graduate studies.

**Required Courses: PhD in Biostatistics**

All students entering the PhD program are required to complete the coursework required for the MS degree. As described above, it is possible for a student entering the graduate program with an MS degree in statistics or biostatistics from another institution to waive up to 12 credit hours of coursework at the discretion of the GPC. It will be the student’s option whether to actually obtain the MS degree, but the department strongly encourages that they do so, since the completion of the master’s project is very good research experience and may lead to a publication.

**PhD Qualifying/Comprehensive Exam**

Upon completion of the first year-and-a-half of course work, the candidate is given a written examination consisting of two parts - Applied Statistics and Theory of Statistics. The exam will test the student on their understanding and comprehension of the foundation of the theory and applications of statistics, and will generally cover materials from BST 621, 622, 623, 626, 631, 632 and 655. This will be a standard departmental exam, administered by the GPC. The criteria for evaluation are the candidate’s understanding and competency in basic principles and foundations of biostatistics, potential for conducting independent research in statistical methods, and ability to express in writing the results of the problems. This examination is offered during the first half of January. At first attempt, a student must take both parts at the same time.

For those years during which at least three students need to take the exam a second time, the exam may be offered in July at the discretion of the GPC. Students must be registered for at least 3 semester hours of graduate work during the semester in which the comprehensive examination is given.

The student may pass each part of the exam at the PhD level, fail at the PhD level but pass at the Master’s level, or fail at the Masters level. If a student fails to pass either part of the exam at the PhD level, one additional chance will be given to retake the part of the exam that was failed. A student who fails the qualifying examination more than once will be dismissed from the PhD program. The student has the opportunity to appeal the decision of his/her dismissal. Graduate School policies on dismissal from the program and appeal of dismissal are described in detail in the UAB Student Handbook.

Please note that receipt of an “A” in all individual courses may not constitute adequate preparation for this exam. The purpose of the qualifying exam is to test the students’ ability to connect the information across courses, to choose appropriate analysis methods, and to display a working knowledge of the tools used in probability and inference. It is highly recommended that students find a mentor within six months after successfully completing the qualifying examination.

**PhD Dissertation Research**

The student should start his/her dissertation research during the second or third year of study. The initial step of the research consists of identifying a topic that is of mutual interest to the student and the research advisor. Courses, seminars, and presentations by the faculty assist the student in this process. The dissertation must be an original contribution to scientific knowledge. It can involve, but is not limited to, the development of new statistical methodologies, evaluation of existing methodologies, and study of their properties, innovative application of existing methodologies, or any combination of the above. It must show a
Environmental Health Sciences

Prospective students should click here to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered: M.P.H., M.S.P.H., Ph.D.
Department Chair: Michelle V. Fanucchi, Ph.D.
Phone: (205) 934-6080
Website: www.soph.uab.edu/ehs
Department Contact: Julie Brown, M.S.
Department Contact Email: jebrown@uab.edu

Program Information and Objectives

The Department of Environmental Health Sciences focuses on understanding the causes, mechanisms, and consequences of environmental and occupational hazards, as well as the prevention and management of these hazards. Principal research areas include: Environmental Toxicology, Free Radical Biology, Cell Signaling, Exposure Assessment, and Occupational Safety.

The objectives of the program leading to a PhD in Environmental Health Sciences are to prepare students for scientific careers in academia, industry, government, and non-governmental organizations. A combination of didactic, laboratory experience, and/or field-based training will be provided to achieve the specific goals for each student. This degree is granted on the basis of distinctive academic achievement, scholarly proficiency, and original research. The Department offers training in Environmental Health Sciences Research, and Industrial Hygiene.

At the doctoral level, two foci are offered:
• Environmental Health Sciences Research (ENH)
• Industrial Hygiene (IHY)

At the master’s level, the following programs of study are offered:
• MPH in Environmental Health/Toxicology (ETOX) - also offered fully online
• MPH in Occupational Health and Safety (OHSM) - also offered fully online
• MPH in Industrial Hygiene (IHY) - also offered fully online
• MPH Fast Track (5th Yr) Program
• MPH in the Accelerated Program in Industrial Hygiene (AIHY)
• MSPH in Environmental Health Toxicology (ETOX)
• MSPH in Industrial Hygiene (IHY)

Admission

Applicants should have a bachelor’s or higher degree in one of the natural sciences, medical sciences, or engineering fields from an accredited college or university. Regardless of degree, this should include courses in biology; general, organic, and physical chemistry; physics; and mathematics through calculus. Applicants interested in specializing in Environmental Toxicology are encouraged to have completed courses in biochemistry and physiology. Industrial Hygiene applicants are expected to have completed Industrial Hygiene courses in an accredited Industrial Hygiene program or the equivalent, or have significant experience in the practice of Industrial Hygiene. Applicants who do not have adequate preparation in these areas are expected to complete remedial training as part of their didactic requirements.

Deadline for Entry Term(s):
US Applicants: Fall - July 15;
International Applicants: Fall – May 15
US & International Applicants
Spring - November 1
Summer – April 1

GPA
3.0

Number of Evaluation Forms:
Three

Entrance Tests: GRE
Verbal is 147 and Quantitative is 150

TOEFL
TOEFL is required for international applicants whose native language is not English.

SOPH Graduate Catalog: http://www.soph.uab.edu/catalog
School of Public Health's Catalog

The Environmental Health Department offers four MPH programs of study

- MPH in Environmental Health/Toxicology (ETOX) - also offered fully online
- MPH in Industrial Hygiene (IHY) - also offered fully online
- MPH in the Accelerated Program in Industrial Hygiene (AIHY)
- MPH in Occupational Health and Safety (OHSM) - also offered fully online

MPH in Environmental Health /Toxicology (ETOX) (including 5th Year; also offered fully online)

The MPH in Environmental Health /Toxicology studies the links between the environment and public health, studying all aspects of this process from initial exposure to toxicant action to science-based policy development. We train students to recognize and assess exposures, determine the toxicity risk to the public, and design and properly communicate strategies to reduce risk and help set appropriate policy.

Environmental Health Curriculum: Students pursuing the Environmental Health & Toxicology degree track must complete a total of 43 credit hours including the MPH core courses listed below.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH Core</td>
<td>17</td>
</tr>
<tr>
<td>BST 601 Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>ENH 611 Environmental &amp; Occupational Exposure Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPI 600 Intro to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HB 600 Social and Behavioral Science Core</td>
<td>3</td>
</tr>
<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
<td>1</td>
</tr>
<tr>
<td>Departmental Track Requirement:</td>
<td>14</td>
</tr>
<tr>
<td>ENH 612 Assessing &amp; Managing Environmental Risks</td>
<td>3</td>
</tr>
<tr>
<td>ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases</td>
<td>3</td>
</tr>
<tr>
<td>ENH 660 Fundamentals of Air and Water Pollution</td>
<td>3</td>
</tr>
<tr>
<td>ENH 661L Environmental Sampling and Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENH 691 Current Topics in Environmental Health and Occupational Health and Safety (Min 3 hrs)</td>
<td>1</td>
</tr>
<tr>
<td>Department Elective:</td>
<td>6</td>
</tr>
<tr>
<td>School Wide Requirements:</td>
<td>3</td>
</tr>
<tr>
<td>PUH 627 Writing &amp; Reviewing Research for MPH Candidates</td>
<td>3</td>
</tr>
<tr>
<td>or GRD 727 Writing &amp; Reviewing Research</td>
<td>3</td>
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<tr>
<td>Internship</td>
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<tr>
<td>ENH 697 Internship</td>
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</tr>
<tr>
<td>Total Hours:</td>
<td>43</td>
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</table>

MPH in Industrial Hygiene (IHY)

This track is designed to provide an intensive educational experience for students without previous experience but who have a strong commitment to occupational health and safety and hazardous substances. Calculus, although not required, is highly recommended. In addition to didactic coursework, these tracks require a three-month internship which is arranged by the program.

The MPH in industrial hygiene combines didactic research instruction and applied research experience for students with or without previous work experience. The industrial hygiene program is designed to develop the students’ understanding of the interrelationships between the basic sciences and the causes and prevention of occupational related diseases. Graduates of the program will be capable of developing systematic approaches to identifying and controlling problems in industrial hygiene, designing and implementing research programs to measure the level of work exposure to hazardous agents, and instituting necessary control measures.

The industrial hygiene program is a component of the Deep South Center for Occupational Health and Safety, one of 16 Education and Research Centers partially supported by the National Institute for Occupational Safety and Health (NIOSH).

Curriculum for Industrial Hygiene: Students must complete the basic MPH core (17 credit hours) and an additional 40 credit hours of course work. Included in the curriculum is a three-month internship in which principles learned in the classroom are put into practice. These are generally paid positions in industry. More than 60 industries nationwide have participated in this program.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH Core</td>
<td>17</td>
</tr>
<tr>
<td>BST 601 Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>ENH 611 Environmental &amp; Occupational Exposure Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPI 600 Intro to Epidemiology</td>
<td>3</td>
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<tr>
<td>HB 600 Social and Behavioral Science Core</td>
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<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
<td>1</td>
</tr>
<tr>
<td>Departmental Track Requirement:</td>
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</tr>
<tr>
<td>ENH 612 Assessing &amp; Managing Environmental Risks</td>
<td>3</td>
</tr>
<tr>
<td>ENH 621 Fund of Industrial Hygiene</td>
<td>3</td>
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<tr>
<td>ENH 624 Control of Occupational Hazards</td>
<td>2</td>
</tr>
<tr>
<td>ENH 625 Industrial Hygiene Case Studies</td>
<td>2</td>
</tr>
<tr>
<td>ENH 626 Physical Agents</td>
<td>2</td>
</tr>
<tr>
<td>ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases</td>
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</tr>
<tr>
<td>ENH 661L Environmental Sampling and Analysis Laboratory</td>
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<tr>
<td>ENH 670 Fund of Occupational Safety</td>
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</tr>
<tr>
<td>ENH 680 Field Interdisciplinary Studies (Minimum 2 hours)</td>
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</tr>
<tr>
<td>ENH 681 Interdisciplinary Worksite Evaluations (minimum 4 hours)</td>
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</tr>
<tr>
<td>ENH 691 Current Topics in Environmental Health and Occupational Health and Safety (minimum 2 hours)</td>
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<tr>
<td>Department Research:</td>
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<td>ENH 699 Masters Level Project Research</td>
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<td>Department Elective:</td>
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<tr>
<td>School Wide Requirements:</td>
<td>3</td>
</tr>
<tr>
<td>PUH 627 Writing &amp; Reviewing Research for MPH Candidates</td>
<td>3</td>
</tr>
<tr>
<td>or GRD 727 Writing &amp; Reviewing Research</td>
<td>3</td>
</tr>
</tbody>
</table>
have participated in this program. More than 60 industries nationwide work. Included in the curriculum is a three-month internship in which MPH core (17 credit hours) and an additional 26 credit hours of course work. Students must complete the MPH Core (17 credit hours) and an additional 28 credit hours for a total of 45 credit hours. Included in the curriculum is a three-month internship in which hazardous agents, and instituting necessary control measures.

The industrial hygiene program is designed to develop the students’ understanding of the interrelationships between the basic sciences and the causes and prevention of occupational related diseases. Graduates of the program will be capable of developing systematic approaches to identifying and controlling problems in industrial hygiene, designing and implementing research programs to measure the level of work exposure to hazardous agents, and instituting necessary control measures.

Curriculum for Industrial Hygiene: Students must complete the basic MPH core (17 credit hours) and an additional 26 credit hours of course work. Included in the curriculum is a three-month internship in which principles learned in the classroom are put into practice. These are generally paid positions in industry. More than 60 industries nationwide have participated in this program.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH Core:</td>
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<tr>
<td>BST 601Q Biostatistics</td>
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<tr>
<td>ENH 611Q Environmental &amp; Occupational Exposure Assessment Online</td>
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<tr>
<td>EPI 600Q Introduction to Epidemiology Online</td>
<td>3</td>
</tr>
<tr>
<td>HB 600Q Social and Behavioral Sciences in Public Health Online</td>
<td>3</td>
</tr>
<tr>
<td>HCO 600Q Introduction to Population Based Health Programs Online</td>
<td>3</td>
</tr>
<tr>
<td>PUH 695Q The Public Health Integrative Experience Online</td>
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<tr>
<td><strong>Departmental Track Requirements:</strong></td>
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<tr>
<td>ENH 612Q Assessing &amp; Managing Environmental Risks Online</td>
<td>3</td>
</tr>
<tr>
<td>ENH 621Q Fundamentals of Industrial Hygiene Online</td>
<td>3</td>
</tr>
<tr>
<td>ENH 624 Control of Occupational Hazards</td>
<td>2</td>
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<tr>
<td>ENH 625 Industrial Hygiene Case Studies</td>
<td>2</td>
</tr>
<tr>
<td>ENH 626 Physical Agents</td>
<td>2</td>
</tr>
<tr>
<td>ENH 650Q Environmental and Occupational Toxicology and Diseases</td>
<td>3</td>
</tr>
<tr>
<td>ENH 661Q Environmental Sampling &amp; Analysis Lab Online</td>
<td>2</td>
</tr>
<tr>
<td>ENH 670Q Fund of Occupational Safety Online</td>
<td>3</td>
</tr>
<tr>
<td><strong>School Wide Requirements:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>PUH 627Q  Writing &amp; Reviewing Research for MPH Candidates or GRD 727 Writing &amp; Reviewing Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Internship:</strong></td>
<td>3</td>
</tr>
<tr>
<td>ENH 697Q Internship Online</td>
<td>3</td>
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<tr>
<td><strong>Total Hours:</strong></td>
<td><strong>57</strong></td>
</tr>
</tbody>
</table>

**MPH in Accelerated Program in Industrial Hygiene (AIHY)**

This track is designed specifically for and limited to graduates of undergraduate Industrial Hygiene programs financially supported by the National Institute for Occupational Safety and Health (NIOSH). Graduates of these programs have received basic courses from NIOSH, peer-reviewed and approved Industrial Hygiene curricula, and are qualified to practice Industrial Hygiene. The Accelerated Program in Industrial Hygiene will broaden the student’s public health knowledge and skills while also preparing students to take leadership roles in Industrial Hygiene.

**Admission**

Students who have graduated from a NIOSH funded and ABET accredited undergraduate Industrial Hygiene program and who meet the minimum requirements for admission to the School of Public Health. ABET is the Applied Science Accreditation Commission of the Accreditation Board of Engineering and Technology. Students without previous experience, but who have a strong commitment to occupational health and safety, may be admitted. In addition to the general admissions requirements for the School of Public Health enrollees shall hold a baccalaureate degree based on a minimum of 120 semester hours or the equivalent that shall include 63 or more semester-hour credits in undergraduate or graduate-level courses in science, mathematics, engineering, and technology, with at least 15 of those at the upper (junior, senior, or graduate) level and a minimum of 21 semester-hour credits, or the equivalent, in communications, humanities and social sciences. Remedial courses, designed to remove deficiencies in the background of entering students, are inherently at a level lower than expected in college credit work. Such courses, particularly in the areas of mathematics, basic science, and communications, cannot be used to meet the minimums in curricular content requirements.

**Curriculum**

Students must complete the MPH Core (17 credit hours) and an additional 28 credit hours for a total of 45 credit hours. Included in the curriculum is a 3 credit hour (180 hours) internship and a 3 credit hour thesis/project requirement. The internships are generally paid positions in industry or government. Flexibility is offered in the research experience to allow highly motivated students to graduate after 12 months of study.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH Core:</td>
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<tr>
<td>BST 601 Biostatistics</td>
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</tr>
<tr>
<td>ENH 611 Environmental &amp; Occupational Exposure Assessment</td>
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</tr>
<tr>
<td>EPI 600 Intro to Epidemiology</td>
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</tr>
<tr>
<td>HB 600 Social and Behavioral Science Core</td>
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<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
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<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
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<tr>
<td><strong>Departmental Track Requirement:</strong></td>
<td><strong>13</strong></td>
</tr>
<tr>
<td>ENH 612 Assessing &amp; Managing Environmental Risks</td>
<td>3</td>
</tr>
<tr>
<td>ENH 625 Industrial Hygiene Case Studies</td>
<td>2</td>
</tr>
<tr>
<td>ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases</td>
<td>3</td>
</tr>
<tr>
<td>ENH 680 Field Interdisciplinary Studies</td>
<td>1</td>
</tr>
<tr>
<td>ENH 681 Interdisciplinary Worksite Evaluations</td>
<td>2</td>
</tr>
<tr>
<td>ENH 691 Current Topics in Environmental Health and Occupational Health and Safety (Minimum of 2 hours)</td>
<td>1</td>
</tr>
</tbody>
</table>
MPH in Occupational Health and Safety (OHSM)  
(also offered fully online)

Health related careers are in high demand. We are searching for occupational health and safety professionals of tomorrow – bright, inquisitive students – with a desire to make a difference in the lives of others! You can make a difference in the lives of workers in your community. Our graduates are at the forefront to protect workers from injuries and illnesses. A safer, healthier workforce is a good thing for everyone. Graduates of our academic programs find rewarding and challenging careers in various employment sectors - working as team members to protect our nation’s most valuable asset, PEOPLE!

Occupational Health and Safety Curriculum: Students pursuing the Occupational Health and Safety degree track must complete a total of 42 credit hours including the MPH core courses listed below.

Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MPH Core:</strong></td>
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<tr>
<td>BST 601 Biostatistics</td>
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<td>ENH 611 Environmental &amp; Occupational Exposure Assessment</td>
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<td>EPI 600 Intro to Epidemiology</td>
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<tr>
<td>HB 600 Social and Behavioral Science Core</td>
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<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
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<td>PUH 695 The Public Health Integrative Experience</td>
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<td><strong>Departmental Track Requirement:</strong></td>
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<td>ENH 612 Assessing &amp; Managing Environmental Risks</td>
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<tr>
<td>ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases</td>
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</tr>
<tr>
<td>ENH 661L Environmental Sampling and Analysis Laboratory</td>
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<tr>
<td>ENH 670 Fund of Occupational Safety</td>
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</tr>
<tr>
<td>ENH 691 Current Topics in Environmental Health and Occupational Health and Safety (Minimum of 2 hours)</td>
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<tr>
<td>MBA 631 Management and Organizations</td>
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<tr>
<td><strong>Department Elective:</strong></td>
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<td>School Wide Requirements:</td>
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<td>PUH 627 Writing &amp; Reviewing Research for MPH Candidates</td>
<td>3</td>
</tr>
<tr>
<td>or GRD 727 Writing &amp; Reviewing Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Internship:</strong></td>
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<tr>
<td>ENH 697 Internship</td>
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<tr>
<td><strong>Total Hours:</strong></td>
<td>42</td>
</tr>
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</table>

School of Public Health's Catalog

The Environmental Health Department offers two MSPH programs of study:

- MSPH in Environmental Health/Toxicology (ETOX)
- MSPH in Industrial Hygiene (IHY)

MSPH in Environmental Health Toxicology

The MSPH program in Environmental Health Sciences/Toxicology is designed to provide an intensive educational experience for those with or without previous experience. Environmental health professionals must be able to recognize, evaluate, and control environmental situations that may lead to disease. They may also require knowledge in designing and conducting studies of environmental chemicals to assess the probability that environmental toxic agents present a risk to humans and/or the environment and to define safe limits of human exposure to them.

MSPH Degree Program Learning Objectives

The objectives of the MSPH program are to assure that students will:

- describe the distribution of chemical, physical, and biological agents in the environment and in the occupational environment;
- apply quantitative methods to measure the concentration or intensity of these agents;
- identify and describe the diseases or other adverse health effects that may result from exposure to these agents and the risk of those outcomes;
- explain and control interventions to reduce or eliminate exposures to these agents;
- recognize regulatory and management considerations relative to these agents;
- critically evaluate published scientific reports; and
- design a sound methodological study to test a new hypothesis, conduct the study, analyze the resulting data and prepare a report of the study.

Admission:

Students without previous experience, but who have a strong commitment to environmental health science may be admitted.

Curriculum:

Students must complete a total of 39 credit hours. Electives are chosen in consultation with the student’s advisor and should be selected to fit the student’s interests, career goals, and academic needs. The degree can be obtained in 21 months of full-time study.

Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>MSPH Core:</strong></td>
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<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
<td>3</td>
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<td>BST 612 Intermediate Statistical Analysis II</td>
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</tr>
<tr>
<td>ENH 611 Environmental &amp; Occupational Exposure Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPI 610 Principles of Epidemiologic Research</td>
<td>4</td>
</tr>
<tr>
<td><strong>Department Track Requirements:</strong></td>
<td>6</td>
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<tr>
<td>ENH 612 Assessing &amp; Managing Environmental Risks</td>
<td>3</td>
</tr>
<tr>
<td>ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases</td>
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</tr>
</tbody>
</table>
The Master of Science in Public Health (MSPH) in Industrial Hygiene

Curriculum with a concentration in Industrial Hygiene will provide students with an option for a more concentrated focus on industrial hygiene topics and a more intensive research experience.

MSPH Degree Program Learning Objectives

The objectives of this degree option are to:

- describe the distribution of chemical, physical, and biological agents in the occupational environment;
- apply quantitative methods to measure the concentration or intensity of these agents;
- identify and describe the diseases or other adverse health effects that may result from exposure to these agents and the risk of those outcomes;
- explain and control interventions to reduce or eliminate exposures to these agents;
- recognize regulatory and management considerations relative to these agents;
- critically evaluate published scientific reports;
- and design a sound methodological study to test a new hypothesis, conduct the study, analyze the resulting data and prepare a report of the study.

The research aspect of this curriculum is conducted under the requirements of the UAB Graduate School, and includes: formation of a research committee, defense of a research proposal, conduct of the research, preparation of a formal thesis, and presentation and defense of the thesis.

Admission

Students without previous experience, but who have a strong commitment to Industrial Hygiene, may be admitted. In addition to the general admissions requirements for the School of Public Health enrollees should have a strong background in math and science and a strong commitment to conduct research (laboratory or field based) as the MS level.

Curriculum

Students must complete a total of 56 credit hours. Electives are chosen in consultation with the student's advisor and should be selected to fit the student's interests, career goals, and academic needs. The degree can be obtained in 21 months of full-time study.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MSPH Core:</td>
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<tr>
<td>BST 611</td>
<td>3</td>
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<tr>
<td>BST 612</td>
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</tbody>
</table>

PhD in Environmental Health Sciences

The PhD program in Environmental Health Sciences prepares scientists for careers in research, environmental program management, and policy analysis. Education and research in the identification, evaluation, and control of hazards to human health are emphasized in this program. Students may concentrate on a wide variety of areas including exposure assessment, environmental chemistry, non-point source water pollution, risk assessment and management, environmental toxicology, and industrial hygiene. Graduates are qualified to assume upper-level positions in the public or private sector in management, teaching, research, or consulting. Graduates are particularly qualified for teaching or research positions in academic institutions that require sound research training.

The PhD degree in the Department of Environmental Health Sciences offer two PhD curricula:

- PhD for students entering with MS, DVM, DMD, DDS, etc
- PhD for students entering with BA and BS, or unrelated to MPH

Admission

Particular emphasis is placed upon students' interest and their commitment to research. The PhD degree requires an original and carefully thought out research dissertation. Students with previous experience and therefore specific ideas for research are particularly encouraged to apply. The general departmental admission requirements apply to the PhD applicants; however, a previous master's degree is also required. Those students who do not have a master's degree in an appropriate area of environmental health must meet the department's course requirements for the MSPH in environmental health and
Curriculum

PhD students are expected to complete courses in 4 areas. The department track requirements, electives (or required courses specific to the student’s program), seminar and journal club hours, and research. Other courses preparatory to dissertation research will be determined by the student in consultation with his/her academic advisor.

Two sets of general requirements are listed below. Students who are admitted to the PhD program with a BA or BS, or those that a master’s degree from a different specialty, will be required to complete a minimum of 72 hours. Students entering with a related master’s degree will follow the schedule requiring 53-59 credit hours. The admissions committee will decide which schedule the student is required to follow. These are also the minimum number of required hours; additional coursework that the dissertation committee deems necessary, or additional research hours needed to complete the dissertation, may increase the total number of credit hours.

**PhD Curriculum for students entering with MS, DVM, DMD, DDS, etc**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Department Track Requirements</strong></td>
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<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
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</tr>
<tr>
<td>ENH 700 Scientific Basis of Environmental Health</td>
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<tr>
<td>ENH 752 Biochemical and Molecular Toxicology (Biochemical &amp; Molecular Toxicology)</td>
<td>3</td>
</tr>
<tr>
<td>ENH 770 Advanced Topics in Environmental Disasters in PUH</td>
<td>3</td>
</tr>
<tr>
<td>EPI 616 Environmental Epidemiology</td>
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</tr>
<tr>
<td>GRD 717 Principles of Scientific Integrity</td>
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</tr>
<tr>
<td><strong>IHY Required Courses for students in IHY program:</strong></td>
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<tr>
<td>ENH 680 Field Interdisciplinary Studies</td>
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</tr>
<tr>
<td>ENH 681 Interdisciplinary Worksite Evaluations</td>
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</tr>
<tr>
<td>ENH 763 Aerosol Technology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Department Seminar and Journal Club:</strong></td>
<td>8</td>
</tr>
<tr>
<td>Journal Club should be taken 4 times and with approval of advisor</td>
<td>4</td>
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</tbody>
</table>
| ENH 790 Seminar: Current Topics in ENH Sciences Research | 1-
| Directed Research: (minimum of 3 hours) | 3 |
| ENH 798 Doctoral Level Directed Res | 1-9 |
| Dissertation Research: (minimum of 24 hours) | 24 |
| ENH 799 Dissertation Research ((minimum of 24 hours)) | 1-9 |
| Estimated Minimum Credit Hours: | 53 |

**PhD Curriculum for students entering with BA and BS, or unrelated MPH or other degrees**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Department Track Requirements</strong></td>
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<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
<td>3</td>
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<tr>
<td>ENH 700 Scientific Basis of Environmental Health</td>
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<tr>
<td>ENH 752 Biochemical and Molecular Toxicology (Biochemical &amp; Molecular Toxicology)</td>
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<tr>
<td>ENH 770 Advanced Topics in Environmental Disasters in PUH</td>
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<tr>
<td>EPI 616 Environmental Epidemiology</td>
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<tr>
<td>GRD 717 Principles of Scientific Integrity</td>
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<tr>
<td><strong>Electives (15 or 6 hours) IHY Required Courses (min 9 hours):</strong></td>
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<td>ENH 680 Field Interdisciplinary Studies</td>
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<td>ENH 763 Aerosol Technology</td>
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<td>ENH 701 Environmental Chemistry</td>
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<td>ENH 681 Interdisciplinary Worksite Evaluations</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>Department Seminar and Journal Club:</strong></td>
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<tr>
<td>Journal Club should be taken 4 times and with approval of advisor</td>
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<tr>
<td>ENH 790 Seminar: Current Topics in ENH Sciences Research (minimum of 4 hours)</td>
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<tr>
<td>Directed Research: (minimum 7 hours)</td>
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<td>ENH 798 Doctoral Level Directed Res</td>
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<tr>
<td>Dissertation Research: (minimum 24)</td>
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<tr>
<td>ENH 799 Dissertation Research</td>
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<tr>
<td>Estimated Minimum Credit Hours:</td>
<td>72</td>
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</table>

Epidemiology

Prospective students should click here to obtain specific admissions requirements on how to apply to Graduate School.

**Degree Offered:** Ph.D., M.P.H., M.S.P.H.
**Interim Chair:** Gerald McGwin, MS, PhD
**Phone:** (205) 975-7699
**Web site:** www.soph.uab.edu/epi
**Department Contact:** Kimberly Hawkins King
**Department Contact E-mail:** hawkinsk@uab.edu

What is Epidemiology?

Epidemiology is the study of trends, patterns, and causes related to disease in populations. Students who concentrate in epidemiology are interested in how diseases spread among given populations. Epidemiologists create complex analytical models to help us understand the causes of and solutions to these diseases more clearly.

Graduates of the UAB Epidemiology program have found employment in academia, research organizations and foundations, industry, public and private health services delivery organizations, and international agencies. Many of our doctoral graduates have faculty positions.

Master’s Programs’ Learning Objectives:

Graduates with a Master’s degree in epidemiology are expected to:

1. To be able to describe the epidemiology of the most important diseases, injuries and causes of death in the U.S.
2. To understand the principles of epidemiological study design and analysis.
3. To recognize the circumstances in which specific designs are appropriate for an investigation, and to identify strategies to minimize and prevent bias in studies.
4. To design data collection, entry and management procedures for epidemiological studies.
5. To compute common epidemiological measures of disease occurrence and association, and to perform hypothesis testing and interval estimation on those measures.
6. To understand published reports of epidemiological studies and to critically evaluate the data presented.
7. To propose a methodologically sound study design for the evaluation of a new hypothesis. (MSPH program)
8. To manage one or more components of a research project, including form design, database design and management, statistical analysis and report writing. (MSPH program)

In addition, graduates of the MSPH degree program are also expected to:

• propose a methodologically sound study design for the evaluation of a new hypothesis; and
• manage one or more components of a research project, including instrument design, database design and management, statistical analysis and report writing.

Admission Requirements

Applicants must meet the requirements for admission to the UAB School of Public Health and must demonstrate their aptitude for biological sciences and mathematics by virtue of their college transcripts and GRE scores. The Department of Epidemiology admits MPH students for the Fall and Spring term each year. Interested applicants should apply at: www.sophas.org.

<table>
<thead>
<tr>
<th>Entry Term</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Deadline for Entry Term(s):</td>
<td>US Applicants: Fall - July 15; International Applicants: Fall – May 15</td>
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<td>US &amp; International Applicants Spring - November 1</td>
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<td>US &amp; International Applicants Summer – April 1</td>
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<td>GPA:</td>
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<td>Number of Letters of Recommendation Required:</td>
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<tr>
<td>Entrance Tests: GRE</td>
<td>Verbal is 147 and Quantitative is 150</td>
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<td>TOEFL:</td>
<td>TOEFL is required for international applicants whose native language is not English.</td>
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<tr>
<td>SOPH Graduate Catalog:</td>
<td><a href="http://www.sophas.org">www.sophas.org</a></td>
</tr>
<tr>
<td>SOPH Admissions:</td>
<td><a href="http://www.soph.uab.edu/catalog">www.soph.uab.edu/catalog</a></td>
</tr>
</tbody>
</table>

For Additional Information

If you have questions please contact Ms. Kimberly Hawkins King at hawkinsk@uab.edu

School of Public Health's Catalog

MPH in Epidemiology (including 5th Year; also offered fully online)

The MPH degree consists of a 42 credit hour minimum. The curriculum includes the MPH Core (21 credit hours), School of Public Health Requirements (3-6 credit hours), EPI Methods Track Requirements (5 credit hours), Internship requirement (3 credit hours), required Chronic Diseases or Infectious Diseases elective (4 credit hours) and at least 6 or more credit hours of approved electives.

Students who have professional degrees, usually assume faculty or research positions in academia or management positions in government or industry. For students without a prior doctoral degree (i.e., students with a general undergraduate degree) or relevant health-related work experience, they usually assume mid-level positions in academia, industry, government, or practice based public health organizations. The typical length of time required for full-time students to complete the 42 hour program is 4 to 5 semesters, or 16 to 20 months.

Curriculum:

**MPH Core Sequence Requirement**: All MPH core courses MUST be taken in the first two semesters of enrollment except for PUH 695: Integrative Experience, which MUST be taken in the last semester of enrollment or graduation term. MPH students can take the Internship course (EPI 697) as early as their first Summer term of enrollment.

**SOPH Course Requirement**: The PUH 627 Writing & Reviewing Research course (or GRD 727) is offered every semester and MUST be taken within the first year of enrollment (first Fall, Spring, or Summer term).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MPH Core Requirements</td>
<td>21</td>
</tr>
<tr>
<td>BST 601</td>
<td>Biostatistics</td>
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<td>ENH 600</td>
<td>Fundamentals of Environmental Health Science</td>
</tr>
<tr>
<td>EPI 610</td>
<td>Principles of Epidemiologic Research</td>
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<tr>
<td>EPI 625</td>
<td>Quantitative Methods in Epidemiology</td>
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<tr>
<td>HB 600</td>
<td>Social and Behavioral Science Core</td>
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<tr>
<td>HCO 600</td>
<td>Introduction to Population Based Health Programs</td>
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<tr>
<td>PUH 695</td>
<td>The Public Health Integrative Experience</td>
</tr>
<tr>
<td>SOPH Requirements</td>
<td>3-6</td>
</tr>
<tr>
<td>PUH 627</td>
<td>Writing &amp; Reviewing Research for MPH Candidates</td>
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<tr>
<td>or GRD 727</td>
<td>Writing &amp; Reviewing Research</td>
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<tr>
<td>Epidemiology Methods Track Requirements</td>
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<td>EPI 626</td>
<td>Introduction to Data Analysis with SAS</td>
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<tr>
<td>EPI 627</td>
<td>Data Analysis and Presentation of Epidemiologic Studies</td>
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<td>Internship</td>
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<td>EPI 697</td>
<td>Internship</td>
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<td>Required EPI Electives (Choose one of the following)</td>
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<tr>
<td>EPI 602</td>
<td>Epidemiology of Chronic Diseases</td>
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<tr>
<td>EPI 605</td>
<td>Epidemiology of Infectious Disease</td>
</tr>
<tr>
<td>Electives (Choose from following courses)</td>
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</tr>
<tr>
<td>EPI 603</td>
<td>Injury-Epidemiologic Principles and Prevention Strategies</td>
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<tr>
<td>EPI 607</td>
<td>Fundamentals of Clinical Research</td>
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<td>EPI 609</td>
<td>Pharmacoepidemiology and Comparative Effectiveness Research</td>
</tr>
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<td>EPI 614</td>
<td>Epidemiologic Methods Applied to Comparative Effectiveness Research</td>
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<td>EPI 616</td>
<td>Environmental Epidemiology</td>
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<td>EPI 618</td>
<td>Fieldwork in Public Health</td>
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<tr>
<td>EPI 621</td>
<td>HIV/AIDS and STDs</td>
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<td>EPI 635</td>
<td>Genetics in Public Health</td>
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<td>EPI 695</td>
<td>Epidemiology Seminar</td>
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<td>EPI 698</td>
<td>Master’s Level Directed Research Epidemiology</td>
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<th>Requirement</th>
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</tbody>
</table>
School of Public Health’s Catalog

The Department of Epidemiology has the following Masters of Science in Public Health Tracks

- Masters of Science in Public Health in Applied Epidemiology (MSPH-EPAP)
- Masters of Science in Public Health in Pharmacoepidemiology and Comparative Effectiveness Research (MSPH-PCER)
- Masters of Science in Public Health in Clinical and Translational Science (MSPH-CTE)

Degree Requirement

Students enrolled in our MSPH degree program are required to complete the “Overview of Public Health” course by the end of their second semester of enrollment. This is a 37 hour self-paced online course that will provide students with broad knowledge of the different disciplines of public health and how they are related.

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

MSPH in Applied Epidemiology

The MSPH in Applied Epidemiology is an academic degree designed for students who wish to receive education and training in epidemiologic applied research methods. Completion of the required core classes (22 credit hours, including 9 hours of independent research), Applied Epidemiology Track requirements (11 hours), required Chronic Diseases or Infectious Diseases elective course (4 hours), and Track-Specific Relevant Electives (5 hours).

Completion of didactic course work, a research project and final thesis defense are required. This degree can be completed in four semesters (from Fall to Fall), or in 16-20 months of full-time coursework.

Course Requirements

A total of 42 credit hours must be earned to receive the MSPH in Applied Epidemiology degree. At least 9 credit hours must be research credits. Prior to, or at the time of matriculation, the student and advisor must agree on the courses the student will take to fulfill these requirements.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSPH Core Requirements</td>
<td>22</td>
</tr>
<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>BST 612 Intermediate Statistical Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>EPI 610 Principles of Epidemiologic Research</td>
<td>4</td>
</tr>
<tr>
<td>EPI 625 Quantitative Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>Masters Level Research Requirements</td>
<td>9</td>
</tr>
<tr>
<td>EPI 699 Master’s Level Project Research Epidemiology</td>
<td>1-9</td>
</tr>
<tr>
<td>Applied EPI Track Requirements</td>
<td>11</td>
</tr>
<tr>
<td>EPI 626 Introduction to Data Analysis with SAS</td>
<td>2</td>
</tr>
</tbody>
</table>

Masters of Science in Pharmacoepidemiology and Comparative Effectiveness Research

The MSPH in Pharmacoepidemiology and Comparative Effectiveness Research degree is designed for students who wish to receive education and training in Epidemiology methods important to the fields of Pharmacoepidemiology and Comparative Effectiveness Research. Completion of the required core classes (22 credit hours including 9 hours of independent research), Pharmacoepidemiology Track Requirements (10 hours), required Chronic Diseases or Infectious Diseases elective course (4 hours), and Track-Specific Relevant electives (7 hours). A total of 43 credit hours must be earned for the MSPH in Pharmacoepidemiology degree.

Completion of didactic course work, a research project and final thesis defense (i.e., a publishable thesis paper and final presentation) are also required. The degree can be completed in as little as 4 semesters (from Fall to Fall), or in 16-20 months of full-time coursework.

Curriculum

A total of 43 credit hours must be earned to receive the MSPH in Pharmacoepidemiology and Comparative Effectiveness Research. Of these 43 total hours, 22 hours are taken to complete the Core requirement (9 semester hours of required masters level project research EPI 699 is included in the 25 core credit hours). Students then complete 10 hours of PCER Track courses, 4 hours of a required Epidemiology chronic disease or infectious disease course, and 7 hours of Track-Specific relevant electives (with the advisor’s approval). During the last term of enrollment or final term of graduation, the student is required to complete his/her final thesis paper and presentation. The paper is expected to be of publishable quality.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSPH Core Requirements</td>
<td>22</td>
</tr>
<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>BST 612 Intermediate Statistical Analysis II</td>
<td>3</td>
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<tr>
<td>EPI 610 Principles of Epidemiologic Research</td>
<td>4</td>
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<tr>
<td>EPI 625 Quantitative Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>Masters Level Research Requirements</td>
<td>9</td>
</tr>
<tr>
<td>EPI 699 Master’s Level Project Research Epidemiology</td>
<td>1-9</td>
</tr>
<tr>
<td>PCER Track Requirements</td>
<td>10</td>
</tr>
<tr>
<td>EPI 609 Pharmacoepidemiology and Comparative Effectiveness Research</td>
<td>3</td>
</tr>
<tr>
<td>EPI 614 Epidemiologic Methods Applied to Comparative Effectiveness Research</td>
<td>2</td>
</tr>
<tr>
<td>EPI 626 Introduction to Data Analysis with SAS</td>
<td>2</td>
</tr>
</tbody>
</table>
GRD 717  Principles of Scientific Integrity  3
Required EPI Elective (4 credits; Choose from the following 2 courses)  4
EPI 602  Epidemiology of Chronic Diseases  4
EPI 605  Epidemiology of Infectious Disease  4
Track-Specific Relevant Electives  7
Total Credit Hours  43

### MSPH in Clinical and Translational Science

There is a growing interest in medical and other health science schools in developing the clinical research skills of faculty members and fellows. This interest has been fueled by increased support from the NIH to prepare such individuals to meet the demand for clinical investigators in the field. Locally, the Schools of Medicine and Public Health have combined efforts to create a training program for young faculty members and fellows from a variety of disciplines.

This program is a post-medical degree training program, aimed primarily at fellows and faculty members interested in developing skills required for clinical research. It is anticipated that this academic training will supplement extensive training in the content area in which the student is trained, and senior mentoring in the politics and policies of project development and management. A graduate of this program will have the academic training to develop and lead independent research programs and projects.

### Curriculum

The MSPH in Clinical Research consists of 42 semester hours. Of these, 22 hours consist of the Core Requirements, including 9 hours of Directed Research. Students also complete 8 hours of requirements within the Clinical Research Track. Students then select from either the Chronic Diseases or Infectious Diseases required elective (4 hours), and finally complete 8 hours of track specific relevant electives. These electives are based on course relevance and specific interest of the student. Note: The student should consult their advisor for approval of these 9 hours of electives. The MSPH requires a research project, thesis and final defense during the graduation term.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Required Core Courses</td>
<td>22</td>
</tr>
<tr>
<td>BST 611  Intermediate Statistical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>BST 612  Intermediate Statistical Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>EPI 610  Principles of Epidemiologic Research</td>
<td>4</td>
</tr>
<tr>
<td>EPI 625  Quantitative Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>Masters Level Research</td>
<td>9</td>
</tr>
<tr>
<td>EPI 698  Master's Level Directed Research Epidemiology (minimum 9 hours)</td>
<td>1-9</td>
</tr>
<tr>
<td>Clinical Research Track Requirements (Choose one of the following courses)</td>
<td>8</td>
</tr>
<tr>
<td>EPI 607  Fundamentals of Clinical Research</td>
<td>3</td>
</tr>
<tr>
<td>BST 625  Design/Conduct Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>EPI 680  Topics in Clinical Research</td>
<td>2</td>
</tr>
<tr>
<td>GRD 717  Principles of Scientific Integrity</td>
<td>3</td>
</tr>
<tr>
<td>Required EPI Electives (4 hours; Choose one of the following courses)</td>
<td>4</td>
</tr>
<tr>
<td>EPI 602  Epidemiology of Chronic Diseases</td>
<td>4</td>
</tr>
<tr>
<td>EPI 605  Epidemiology of Infectious Disease</td>
<td>4</td>
</tr>
</tbody>
</table>

### PhD in Epidemiology

The goal of the Epidemiology Ph.D. program is to prepare exceptionally qualified individuals for a career of research and teaching in the field of epidemiology. Specific areas of concentration within the broader field of epidemiology are available. These include occupational epidemiology, infectious disease epidemiology, chronic disease epidemiology, epidemiologic methods, molecular epidemiology, pharmacoepidemiology and genetic epidemiology. The aim of the Ph.D. program is to provide students with a firm background in epidemiology, applied statistics, and information management. Candidates who complete the program will have mastered the skills required for conducting independent research in epidemiology. Students have the opportunity to obtain instruction in the basic sciences outside the School of Public Health. Students completing the Ph.D. program acquire specific research skills in epidemiology that are applicable to both basic science and public health research.

### Program Requirements

The Doctor of Philosophy (Ph.D.) is administered by the UAB Graduate School. The degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field of academic study.

The Director of the Epidemiology Ph.D. program is appointed by the Dean of the Graduate School in consultation with the Dean of the School of Public Health. The current Program Director is Dr. Sadeep Shrestha. Program policy is established by Graduate School Faculty holding primary and secondary appointments in the Department of Epidemiology within the guidelines of and in compliance with the general rules and regulations of the Graduate School as well as the School of Public Health. Changes in academic policy in the School of Public Health are generally initiated through the Educational Policy Committee (EPC). Decisions of the EPC are subject to approval by the School of Public Health Faculty.

### Curriculum

The PhD program emphasizes epidemiologic study design and data analysis. The program is comprised of advanced course work (both didactic and of an unstructured nature) and is designed to prepare exceptionally qualified individuals for a career of research and teaching. A minimum of 60 credit hours must be earned to receive the Ph.D in Epidemiology degree. Of this 60 credit hour minimum, 24 hours must be earned in doctoral level didactic Epidemiology courses and/or Biostatistics courses and at least 12 hours of directed research EPI 798 and 12 hours of dissertation research EPI 799 must be taken. Students must also complete at least two full semesters in candidacy (EPI 799 credits) before being allowed to graduate.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Required Courses</td>
<td>18</td>
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<tr>
<td>BST 621  Statistical Methods I</td>
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<tr>
<td>BST 622  Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>EPI 703  Special Topics in the Epidemiology of Chronic Disease</td>
<td>3</td>
</tr>
<tr>
<td>EPI 704  Advanced Epidemiologic Methods</td>
<td>3</td>
</tr>
<tr>
<td>EPI 710  Analysis of Case Control Studies</td>
<td>3</td>
</tr>
<tr>
<td>EPI 720  Analysis of Follow-Up Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
Program Information and Objectives

The Department of Health Behavior aims to train health promotion specialists/behavioral scientists to conduct research, develop and evaluate programs, implement and disseminate programs and integrate ethical, cultural and social justice topics as they address the public's health.

Health Behavior MPH and PhD students learn to use theories and methods from the social and behavioral sciences to develop programs that encourage healthy behaviors. They learn state-of-the-art techniques and methods for research and program evaluation. Doctoral students study these topics in depth as they apply their knowledge and skills to conducting research and writing funding proposals and manuscripts. Our research covers obesity prevention including lifestyle interventions, family and adolescent health issues, prevention and control of addictive behaviors, sexual health risks including HIV/AIDS prevention and treatment, community based health promotion, health communication, and dissemination and implementation science.

Degree Programs

- MPH Health Behavior - also offered fully online
- MPH Fast Track (5th Year)
- Coordinated MPH/PhD in Health Behavior and Psychology or Sociology
- Coordinated MPH/MSN in Health Behavior
- MSPH Clinical Research
- Ph.D. Health Education & Health Promotion

Admissions Information

Deadline for All Application:
- US Applicants: Fall - July 15;
- International Applicants: Fall – May 15
- US & International Applicants
  - Spring - November 1
  - Summer – April 1

Number of Letters of Recommendation Required: Three

Entrance Tests: GRE (TOEFL and WES are also required for international applicants whose native language is not English.)

Comments: For additional information please contact Julie Brown, M.S. (jebrown@uab.edu, phone: 205-975-8075)

School of Public Health Catalog

MPH Programs

The major instructional goal of the department is: to train health promotion specialists/behavioral scientists to conduct research, develop and evaluate programs, implement and disseminate programs and integrate ethical, cultural and social justice topics as they address the public's health.
The Department of Health Behavior offers the following MPH degrees:

- MPH - Also offered online
- MPH Fast Track (5th Year)
- MPH/MSN
- MPH/PhD in Psychology or Sociology

MPH in Health Behavior (including the MPH Fast Track Program and Online Degree Program)

Students in the MPH in Health Behavior are taught methods to identify and understand factors that affect behaviors related to personal and community health and to develop and evaluate intervention programs that promote healthy lives. Students are required to complete an internship. The internship is three credit hours and takes place following the completion of core course work.

The MPH program admits students with a bachelor’s degree. Students in this track take 44-47 credit hours. The number of credit hours you are required to complete is determined before admission by examining your education and professional experiences. The MPH may be completed in four semesters.

The MPH Fifth-year program admits students who are juniors at UAB. Students in this track take 44-47 credit hours. You generally complete this program one year after you complete your undergraduate degree.

Coordinated MPH/MSN in Health Behavior

The Coordinated MSN (School of Nursing)/MPH (Health Behavior) degree program is offered with the University of Alabama at Birmingham School of Nursing. This program enables you to obtain an MPH in Health Behavior simultaneously with a MSN from the School of Nursing.

Admissions: Students are admitted separately to the MPH and MSN degree programs and must meet admission requirements in both the School of Public Health and the School of Nursing.

* See the School of Nursing Catalog for the requirements for the MSN portion of the dual MPH/MSN degree.

Coordinated MPH/PhD in Health Behavior and Psychology or Sociology

The Coordinated MPH (Health Behavior)/PhD (Sociology or Psychology) degree program is offered with the University of Alabama at Birmingham Departments of Psychology and Sociology and the University of Alabama Department of Psychology. This program will enable you to obtain an MPH in Health Behavior simultaneously with a PhD in psychology or sociology. To be considered for this program, you must first be admitted to the PhD program in psychology or sociology at the University of Alabama at Birmingham or psychology at the University of Alabama (Tuscaloosa). The MPH degree requires a minimum of 43-46 (sociology) or 43-46 (psychology at UAB) credit hours.

Admission: Applicants to this program must first be admitted to the PhD program of interest. Applicants must meet the minimum requirements for admission into the School of Public Health.

Coursework in Psychology

* Two courses can be from the doctoral program & must be approved as behavioral science electives.
courses common to all students, plus research elective and focus elective research programs and projects. The program consists of a core set of policies of project development and management. A graduate of this program will have the academic training to develop and lead independent developing skills required for clinical research. It is anticipated that this academic training will supplement extensive training in the content area in which the enrollee is trained, and senior mentoring in the politics and ethics of research on human subjects.

Admission

Applicants should possess a medical or other health science professional degree. They may be in their final years of training as residents or fellows or hold positions as junior faculty members. Applicants must meet the minimum requirements for admission into the School of Public Health. The Graduate Record Examination (GRE) is required for applications to all MSPH programs in the School of Public Health. The GRE may be waived at the discretion of the committee, for applicants who have been pre-screened by the clinical investigator training grant committee of the School of Medicine. The applicant must produce three letters of reference and a letter stating that he/she will be guaranteed sufficient release time from clinical duties to be able to attend classes regularly and fulfill course requirements in a timely manner. A medical/health sciences mentor should be identified and a setting where the student can gain experience in conducting clinical research. A faculty member within the School of Public Health will be assigned as an advisor based on the stated interests of the applicant.

Curriculum

The MSPH in Clinical Research consists of a minimum of 42 credit hours. Of these, 15 hours are required, including 9 hours of specific biostatistics courses and 6 hours of specific epidemiology courses. Students then select at least 6 credit hours from a list of approved Masters Research electives, complete 12 hours of focus specific electives in Health Behavior, and take at least 9 hours of Masters Level Directed Research to fulfill the MSPH requirement for conducting a research project.

Coursework for Sociology

* One course can be from the doctoral program & must be approved as a behavioral science elective.

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<tr>
<th>Requirements</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>MPH Core</td>
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<tr>
<td>SOC 703    Regression Analysis</td>
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<tr>
<td>SOC 704    Categorical Data Analysis</td>
<td></td>
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<tr>
<td>ENH 600    Fundamentals of Environmental Health Science</td>
<td></td>
<td>3</td>
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<tr>
<td>EPI 600    Intro to Epidemiology</td>
<td></td>
<td>3</td>
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<tr>
<td>HB 624     Advanced Social and Behavioral Science Theory</td>
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<td>3</td>
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<tr>
<td>HCO 600    Introduction to Population Based Health Programs</td>
<td></td>
<td>3</td>
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<tr>
<td>PUH 695    The Public Health Integrative Experience</td>
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<tr>
<td>Health Behavior Track</td>
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<td>9</td>
</tr>
<tr>
<td>HB 636     Developing Interventions to Promote Public Health</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HB 643     Health Program Evaluation</td>
<td></td>
<td>3</td>
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<tr>
<td>SOC 713    Intro to Applied Sociology Research Methods</td>
<td></td>
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<tr>
<td>Health Behavior/Sociology Electives*</td>
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<tr>
<td>SOPH Requirements</td>
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</tr>
<tr>
<td>PUH 627    Writing &amp; Reviewing Research for MPH Candidates</td>
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<tr>
<td>or GRD 727 Writing &amp; Reviewing Research</td>
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<td>3</td>
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<tr>
<td>Internship</td>
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<tr>
<td>HB 697    Internship</td>
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<tr>
<td>Total Hours</td>
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<td>43-46</td>
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</tbody>
</table>

School of Public Health Catalog

MSPH Clinical Research

In response to interest in medical and other health science schools in developing the clinical research skills of faculty members and fellows, the Schools of Medicine and Public Health have combined efforts to create a training program for young faculty members and fellows from a variety of disciplines.

This program is a post-medical or other health science degree training program, aimed primarily at fellows and faculty members interested in developing skills required for clinical research. It is anticipated that this academic training will supplement extensive training in the content area in which the enrollee is trained, and senior mentoring in the politics and policies of project development and management. A graduate of this program will have the academic training to develop and lead independent research programs and projects. The program consists of a core set of courses common to all students, plus research elective and focus elective courses that reflect the academic interest of the student. Graduates will be able to do the following upon completion of the program:

- Design, conduct, and evaluate clinical research studies;
- Understand issues of data collection and study management;
- Follow appropriate policies and procedures relating to the utilization of human subjects in clinical research;
- Demonstrate an understanding of the ethics of research on human subjects;
- Prepare competitive applications for extramural research funding;
- Prepare manuscripts for publication in the scientific literature; and
- Critically evaluate published research.

Admission

Applicants should possess a medical or other health science professional degree. They may be in their final years of training as residents or fellows or hold positions as junior faculty members. Applicants must meet the minimum requirements for admission into the School of Public Health. The Graduate Record Examination (GRE) is required for applications to all MSPH programs in the School of Public Health. The GRE may be waived at the discretion of the committee, for applicants who have been pre-screened by the clinical investigator training grant committee of the School of Medicine. The applicant must produce three letters of reference and a letter stating that he/she will be guaranteed sufficient release time from clinical duties to be able to attend classes regularly and fulfill course requirements in a timely manner. A medical/health sciences mentor should be identified and a setting where the student can gain experience in conducting clinical research. A faculty member within the School of Public Health will be assigned as an advisor based on the stated interests of the applicant.

Curriculum

The MSPH in Clinical Research consists of a minimum of 42 credit hours. Of these, 15 hours are required, including 9 hours of specific biostatistics courses and 6 hours of specific epidemiology courses. Students then select at least 6 credit hours from a list of approved Masters Research electives, complete 12 hours of focus specific electives in Health Behavior, and take at least 9 hours of Masters Level Directed Research to fulfill the MSPH requirement for conducting a research project.

<table>
<thead>
<tr>
<th>Requirements</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>Required Core Courses</td>
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</tr>
<tr>
<td>BST 611    Intermediate Statistical Analysis I</td>
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<td>3</td>
</tr>
<tr>
<td>BST 612    Intermediate Statistical Analysis II</td>
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<td>3</td>
</tr>
<tr>
<td>BST 625    Design/Conduct Clinical Trials</td>
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<td>3</td>
</tr>
<tr>
<td>EPI 610    Principles of Epidemiologic Research</td>
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<td>4</td>
</tr>
<tr>
<td>EPI 680    Topics in Clinical Research</td>
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<td>2</td>
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<tr>
<td>Health Behavior Requirements:</td>
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<td>12</td>
</tr>
<tr>
<td>HB 624     Advanced Social and Behavioral Science Theory</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HB 636     Developing Interventions to Promote Public Health</td>
<td></td>
<td>3</td>
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<tr>
<td>HB 641     Research Methods in Behavioral Science</td>
<td></td>
<td>3</td>
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<tr>
<td>HB 643     Health Program Evaluation</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Masters Level Research:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>HB 698     Master's Level Directed Research Health Education (minimum of 9 hours)</td>
<td></td>
<td>1-9</td>
</tr>
<tr>
<td>Masters Research Electives: 6 hours should be selected by faculty advisor and student to complete total hours required for degree.</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>BST 619    Data Collection and Management</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
PhD in Health Education and Health Promotion

The PhD program in health education/promotion provides students with instruction and research experience to become practitioners and scientists in health education and health promotion. The program combines the resources of academic units from the University of Alabama at Birmingham (UAB School of Public Health, Department of Health Behavior, UAB School of Education, Department of Human Studies), and the University of Alabama (UA) College of Human Environmental Sciences, Department of Health Science.

The specific objectives of the Health Behavior program are to enable the students to:

- Develop the skills to effectively plan, implement, and evaluate intervention programs for promoting health and preventing disease;
- Develop theoretical knowledge from social and behavior sciences;
- Develop the knowledge and skills to become independent researchers;
- Complete a substantive research experience integrating the first three objectives.

Admission to Ph.D. program in the SOPH Department of Health Behavior

Student applications are reviewed by the faculty in the Department of Health Behavior. Applicants should meet the admissions requirements of the graduate school, including submission of scores on the Graduate Record Exam (GRE). Admission to the program is competitive. Evidence of scholarship, a clear statement of career goals and research interest, professional recommendations, and professional experience are among the factors receiving strong consideration. Candidates for admission must have completed a master’s degree from an accredited institution in public health, health education or a related field.

The PhD program requires completion of a minimum of 73 hours of graduate credit, satisfactory performance on comprehensive exams, and completion of a doctoral dissertation.

Dissertation Research

Specific courses needed for completion of the advanced research and statistical methods requirement may vary and require approval by the student’s academic advisor. Specific courses for the social science concentration are selected by the student and his/her academic advisor. Students may transfer a minimum of 12 credits from comparable graduate courses completed previously if those courses were not used to complete another degree, are graduate level, and a grade of at least a B.

Directed Research

Students are required to complete at least twelve directed research credit hours (HB 798). The goals of directed research are:

- To provide experience in planning, conducting, and reporting behavioral science research under the mentoring of a faculty member or a researcher employed by an agency such as the CDC, NIH, or health department.
- To provide you with opportunities to develop manuscripts for publication, conference paper presentations, grant submissions or other “research products”.
- To help you prepare for dissertation work.

Comprehensive Exam

Doctoral students are required to take a comprehensive examination before proposing a dissertation. At a minimum, the exam covers the scientific and theoretical basis of health education and health promotion, the design and evaluation of health promotion programs and research methods in health promotion. Prior to taking the comprehensive exams, the student must have completed the Health Education/Promotion Core Courses and at least 75% of their course work.

Doctoral Dissertation

The doctoral dissertation is designed to provide students with a comprehensive and original research experience, and it requires the completion of a minimum of 12 hours of dissertation credit. Students complete credits for the dissertation after completing coursework and comprehensive exams, and being admitted to candidacy.

All PhD students must meet the graduation requirements of their department and the Graduate School.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Health Education/Promotion Core Courses</td>
<td>12</td>
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<tr>
<td>HB 724 Advanced Social and Behavioral Science Theory</td>
<td>3</td>
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<tr>
<td>HB 740 Advanced Health Program Evaluation Seminar</td>
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<tr>
<td>HB 760 Planning and Administration of Health Education and Promotion Programs</td>
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<td>HB 771 Seminar in Health Education/Health Promotion Session I</td>
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<td>Advanced Research and Statistical Methods Courses</td>
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<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
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<td>BST 612 Intermediate Statistical Analysis II</td>
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<td>EPI 610 Principles of Epidemiologic Research</td>
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<td>HB 741 Clinical Research Methods in the Behavioral Sciences</td>
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<td>Qualitative or Mixed Methods Research</td>
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<td>HB 703 Writing for the Behavioral Sciences</td>
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Health Care Organization and Policy

Prospective students should click here to obtain specific admissions requirements on how to apply to Graduate School.

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<thead>
<tr>
<th>Requirement</th>
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<tbody>
<tr>
<td>Degree Offered:</td>
<td>M.P.H., M.S.P.H., Dr.PH.</td>
</tr>
<tr>
<td>Department Chair:</td>
<td>Meredith Kilgore, Ph.D.</td>
</tr>
<tr>
<td>Phone:</td>
<td>205-934-3478</td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.soph.uab.edu/hcop">http://www.soph.uab.edu/hcop</a></td>
</tr>
<tr>
<td>Department Contact:</td>
<td>Brenda Campbell</td>
</tr>
<tr>
<td>Department Contact Email:</td>
<td><a href="mailto:bcampbel@uab.edu">bcampbel@uab.edu</a></td>
</tr>
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</table>

Health Care Organization and Policy (Dr.P.H., M.P.H, M.S.P.H.)

Overview:

Programs in Health Care Organization and Policy provide training and education at the master’s and doctoral level. At the master’s level, programs are available for those desiring a career in the analysis of health services policy or in the management of public health services resources. At the doctoral level, our program offers rigorous training in research methods and evidence-based public health practice suitable for careers in public health leadership, or academic settings. Our programs require mastering major concepts of health economics, public health management and planning, health policy, outcomes research, and health services evaluation. Master of Public Health (M.P.H.) degrees are offered in health policy, health care organization, general theory and practice, Maternal and Child Health policy and leadership, outcomes research, public health preparedness as well as coordinated degree options in business, optometry, public administration and juris doctorate. The department’s Doctor of Public Health (DrPH) degree has concentrations in Public Health Management or Maternal and Child Health Policy.

The department offers the following Masters Program options:

- MPH in Health Care Organization (HCOP)
- MPH in General Theory and Practice (GTP)
- MPH in Health Policy (HPOL)
- MPH in Public Health Preparedness Management and Policy (PHPM)
- MPH in Maternal and Child Health Policy and Leadership (MCPL)
- MSPH in Outcomes Research (OR)

- Coordinated MPH-JD in Public Health and Juris Doctor (PHJD)
- Coordinated MPH-MBA in Public Health and Business Administration (PHBA)
- Coordinated MPH-OD in Public Health and Optometry (PHOD)
- Coordinated MPH-MPA in Public Health and Public Administration (PHPA)
- Coordinated MSPH-PhD in Public Health and Psychology (HCPY)
- Coordinated MPH-MSN in Maternal and Child Health Policy
- Coordinated MPH-MSW in Maternal and Child Health Policy

Doctor of Public Health in Health Care Organization and Policy (DrPH)

The DrPH degree is the highest professional degree in public health. The DrPH Program in HCOP develops leaders and research faculty who have proficiency in data analysis, management, critical thinking, teaching, and translating research into policy and practice. Students will be exposed to complex practical problems facing public health practitioners and policy-makers. This program, housed within the Department of HCOP has three concentrations:

1. Public Health Management
2. Maternal and Child Health Policy
3. Outcomes Research

Admissions

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<tr>
<th>Requirement</th>
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<td>International Applicants: Fall – May 15</td>
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<td>US &amp; International Applicants</td>
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<td>Spring - November 1</td>
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<td>Summer – April 1</td>
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<td>Entrance Tests: GRE</td>
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<td><a href="http://www.soph.uab.edu/catalog">http://www.soph.uab.edu/catalog</a></td>
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<td><a href="http://www.soph.uab.edu/graduate/">http://www.soph.uab.edu/graduate/</a></td>
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School of Public Health's Catalog

Master in Public Health - Health Care Organization and Policy

The collected laws, regulations, and approaches taken to making decisions and implementing policy to protect the health of communities and populations. Public health policy issues include a wide range of topics including health care reform, insurance reform, prevention of communicable diseases, food safety, and stem cell research.

The Department of Health Care Organization and Policy provides training and education at the masters and doctoral level. At the masters level, programs are available for those desiring a career in the analysis of health services policy or in the management of public health services...
resources. At the doctoral level, programs offer rigorous training in research methods and evidence-based public health practice suitable for careers in public health leadership or academic settings.

**Master of Public Health - HCOP Tracks**
- Master of Public Health in Health Care Organization (HCOP) - also offered online
- Master of Public Health in General Theory & Practice (GTP)
- Master of Public Health in Health Policy (HPOL)
- Master of Public Health in Public Health Preparedness Management & Policy (PHPM)
- Master of Public Health in Maternal and Child Health Policy & Leadership (MCPL) - also offered online
- Fast Track Master of Public Health (5th Year Program)

**Master in Public Health in Health Care Organization (including the 5th Year; also offered fully online)**

The MPH in health care organization is designed to train individuals for management positions in public health and other health care organizations. Students are introduced to the public health system and the fundamental skills necessary for managing health care organizations. Required coursework includes basic management disciplines and selected content in economics, finance, marketing, law and insurance.

HCOP also offers an online MPH HCO Degree Program for Public Health and Health Care Professionals (i.e. Nsg, MD, SW and Public Health Employees). Qualified applicants who are unable to complete an MPH in the traditional format will be able to complete the program in three years and two summers.

**Requirements**

**Core Requirements**

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<tr>
<th>Course Code</th>
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<th>Hours</th>
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<tr>
<td>BST 601</td>
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<td>EPI 600</td>
<td>Intro to Epidemiology</td>
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<td>HCO 630</td>
<td>Introduction to Organization and Policy in Public Health</td>
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<td>PUH 695</td>
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**SOPH Requirements**

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<td>PUH 627</td>
<td>Writing &amp; Reviewing Research for MPH Candidates</td>
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<tr>
<td>or GRD 727</td>
<td>Writing &amp; Reviewing Research</td>
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**Department Track Requirements**

<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>HCO 601</td>
<td>Health Economics</td>
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<tr>
<td>HCO 612</td>
<td>Strategic Management in Health Programs</td>
</tr>
<tr>
<td>HCO 615</td>
<td>Finance for Health Professionals</td>
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<tr>
<td>HCO 620</td>
<td>Health Insurance &amp; Managed Care</td>
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<tr>
<td>HCO 670</td>
<td>Social and Ethical Issues in Public Health</td>
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**Choose two of the following courses:**

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<td>HCO 603</td>
<td>Public Health Policy</td>
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<tr>
<td>HCO 607</td>
<td>Public Health Law</td>
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<td>HCO 613</td>
<td>Health Information in Technology &amp; Policy</td>
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<tr>
<td>HCO 618</td>
<td>Management Concepts in Public Health Programs</td>
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</table>

**Internship:**

- HCO 697 Internship 3

**Total Credit Hours Earned for Degree**

- 44

**MPH in General Theory and Practice**

This program is available to students who prefer a generalist background rather than a more specialized track with additional course requirements. The instructional program is formulated by students and their advisors to meet the specific needs of practicing professionals and to provide a broad, interdisciplinary review of public health theory and practice.

**Admission:** Students must meet the general admission requirements for the Master of Public Health degree program. Only persons with doctoral level professional degrees and/or five years or more of senior level experience in public health or a closely allied field may apply to this program. Students who have been admitted to medical school also may apply to this program. Applicants with a previously earned doctoral credential may, upon request, be waived from the requirements to submit a GRE score.

**Requirements**

**Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BST 601</td>
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<td>PUH 695</td>
<td>The Public Health Integrative Experience</td>
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**SOPH Requirement**

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<td>Writing &amp; Reviewing Research for MPH Candidates</td>
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<td>or GRD 727</td>
<td>Writing &amp; Reviewing Research</td>
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**Department Track Requirements**

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>HCO 601</td>
<td>Health Economics</td>
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<td>HCO 603</td>
<td>Public Health Policy</td>
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</table>

**Department Electives**

- 9

**Internship**

- 3

**Total Hours**

- 44

**Master of Public Health in Health Policy**

The MPH in health policy is designed to train policy analysts at the master’s level to work in government agencies; voluntary health organizations; local, state, and federal legislative bodies; managed care organizations; private industry; and consulting firms. The quantitative policy analysis content emphasizes skills appropriate to an active mid-level research career. The program is designed for the individual who wants to contribute to the public discussion of health issues and policy making. The focus of training here is to give you skills in statistical and economic analysis so that you can help senior investigators write reports that recommend changes in our healthcare systems or that evaluate how well the systems work.

**Requirements**

**Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BST 601</td>
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<td>Intro to Epidemiology</td>
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<td>HB 600</td>
<td>Social and Behavioral Science Core</td>
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</tbody>
</table>
 MPH in Public Health Preparedness Management and Policy

This specialized degree covers all hazards preparedness topics including, event typologies, response organization, leadership and management, hazard and risk assessment policy development and evaluation and risk communication.

Admission: Applicants must meet the general admission requirements for the Master of Public Health degree program. Applicants with a previously earned doctoral degree may be waived from the requirement to submit a GRE score. Students may apply for admission to this program at any time and once admitted may begin taking classes the next semester.

Curriculum: Students in this track take 44 credit hours. The work can generally be completed in two years. All of the required courses for this program are offered on weeknights.

<table>
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<td>HCO 630 Introduction to Organization and Policy in Public Health</td>
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<td>HCO 640 Disaster and Emergency Management</td>
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<td>HCO 641 Health Preparedness and Response Policy</td>
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<td>HCO 643 Emergency Preparedness Exercise, Evaluation &amp; Communication</td>
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<td>HCO 670 Social and Ethical Issues in Public Health</td>
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<td>HCO 698 Master's Level Directed Research Health Care Organization and Policy</td>
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<td>ENH 610 Environmental Disasters</td>
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<td>EPI 605 Epidemiology of Infectious Disease</td>
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<td>Total Credit Hours</td>
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</table>

MPH in Maternal and Child Health Policy and Leadership (also offered fully online)

SOPH Catalog

The MPH programs in the maternal and child health concentration are designed to educate individuals who will plan, administer, and evaluate programs in maternal and child health. The programs provide information about the special problems faced by women and children, including children with special health care needs, and their families. The programs develop and integrate skills from maternal and child health, health policy and leadership and demonstrate their application in problem solving and systems development.

<table>
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<td>HCO 601 Health Economics</td>
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<td>HCO 605 Fundamental of MCH Part 1:Issues, Program and Policies</td>
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<td>HCO 606 Fundamentals of Maternal and Child Health Part II: Application of Essential MCH Skills</td>
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<td>HCO 625 Advanced Leadership and Practice in MCH Part I - Introduction to Leadership</td>
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<td>HCO 626 Adv Leadership and Practice in MCH Module II - Collaborative Leadership and Advocacy</td>
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<td>HCO 603 Public Health Policy</td>
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<td>HCO 608 Reproductive Health</td>
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<td>HCO 613 Health Information in Technology &amp; Policy</td>
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<td>HCO 624 Healthy Lifestyles for the MCH Population: Integrating Nutrition with Physical Activity</td>
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<td>HCO 631 Public Health Demography</td>
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<td>HCO 672 Perinatal Health: Issues, Data &amp; Policies</td>
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<td>Total Credit Hours</td>
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</table>
Health Care Organization and Policy’s Coordinated Degrees

- Coordinated Master of Public Health / Juris Doctor (PHJD)
- Coordinated Master of Public Health / Master of Business Administration (PHBA)
- Coordinated Master of Public Health / Doctor of Optometry (PHOD)
- Coordinated Master of Public Health / Master of Public Administration (PHPA)
- Coordinated Master of Public Health in Maternal & Child Health Policy & Leadership / Master of Science in Nursing
- Coordinated Master of Public Health in Maternal & Child Health Policy & Leadership / Master of Social Work
- Coordinated Master of Public Health in Maternal & Child Health Policy & Leadership / Master of Social Work Online

Coordinated MPH-JD in Public Health and Juris Doctor

The department offers a coordinated Master of Public Health and Juris doctor degree program in cooperation with the Cumberland School of Law at Samford University, also located in Birmingham. The purpose of the program is to offer future attorneys exposure to the broad areas of public health.

Admission: Students enrolled in this program must be enrolled at the Cumberland School of Law. In order to be admitted to the coordinated programs, a student must have a GPA of 2.5 at the end of the first year of law school. A minimum law school GPA of 2.5 each semester and a minimum 3.0 GPA each term in public health are required for students to continue in the coordinated program. Interested students should contact the Office of Student and Academic Services at the School of Public Health for MPH application materials and Cumberland Law School for J.D. application materials.

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Law 526: Business Organizations 4
Total Credit Hours Earned for Degree: 45

Coordinated MPH-MBA in Public Health and Business Administration

This program’s purpose is to provide students without relevant advanced degrees and/or without previous public health experience with those skills necessary for advanced positions in health management. Also, students with experience and/or a relevant advanced degree who wish to pursue a health management credential with broad applicability should seriously consider this coordinated program.

Admission: Students admitted to this program will have at least a bachelor’s degree. Students are admitted separately to the MPH and MBA programs. The School of Business should be contacted for MBA admission. If an applicant does not meet this requirement additional information can be found at MBA Admission website http://www.uab.edu/business

Requirements

<table>
<thead>
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<td>MBA 601: Accounting and Finance for Managers</td>
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<td>MBA 634: Strategic Management</td>
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<tr>
<td>MBA 637: Operations and Supply Chain Management</td>
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<tr>
<td>MBA 642: Economics for Managers</td>
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<tr>
<td>MBA 651: Marketing Strategy</td>
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<tr>
<td>MBA 662: Quantitative Analysis for Business Managers</td>
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<tr>
<td>MBA Electives</td>
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<tr>
<td>Total Credit Hours Earned for Degree:</td>
<td>74</td>
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</table>
Coordinated MPH-OD in Public Health and Optometry

Admission: Applicants to the concurrent MPH/OD program must meet the following requirements: enrollment and good standing in the School of Optometry, interview by MPH/OD committee in the School of Optometry, approval and recommendation by the dean of the School of Optometry, and apply and be accepted for admission to the School of Public Health.

Curriculum: Students in the concurrent MPH/OD program are expected to complete the curriculum of the optometry professional program, and a total of 45 credit hours in the MPH program. Work in the public health program can be completed over a four-year period, including summers. Students may begin their MPH program in the summer prior to their entering the Optometry professional program.

Requirements

Hours

Core Requirements 17
BST 601 Biostatistics 4
ENH 600 Fundamentals of Environmental Health Science 3
EPI 600 Intro to Epidemiology 3
HB 600 Social and Behavioral Science Core 3
HCO 630 Introduction to Organization and Policy in Public Health 3
PUH 695 The Public Health Integrative Experience 1
SOPH Requirements 3
PUH 627 Writing & Reviewing Research for MPH Candidates 3
or GRD 727 Writing & Reviewing Research 3
Department Track Requirements 21
HCO 601 Health Economics 3
HCO 603 Public Health Policy 3
Internship 3
HCO 697 Internship 3
Total Credit Hours Earned for Degree 44

Coordinated MPH-MPA in Public Health and Public Administration

The MPH/MPA degree program provides students with the knowledge base of public health and the skills required to work effectively in a responsible, administrative position in the public sector. Through this coordinated degree program, students in the MPH program can satisfy some of their requirements through courses in the MPA program and vice versa.

Admission: Students entering this program must meet the minimum requirements for admission into the School of Public Health. The student must apply to and be admitted to both programs. The graduate School should be contacted for MPA application materials and the School of Public Health should be contacted for MPH application materials.

Requirements

Hours

Core Requirements 17
BST 601 Biostatistics 4
ENH 600 Fundamentals of Environmental Health Science 3
EPI 600 Intro to Epidemiology 3
HB 600 Social and Behavioral Science Core 3
HCO 630 Introduction to Organization and Policy in Public Health 3
PUH 695 The Public Health Integrative Experience 1
SOPH Requirements 3
PUH 627 Writing & Reviewing Research for MPH Candidates 3
or GRD 727 Writing & Reviewing Research 3
Department Track Requirements 15
HCO 601 Health Economics 3
HCO 605 Fundamental of MCH Part 1: Issues, Program and Policies 3
HCO 606 Fundamentals of Maternal and Child Health Part II: Application of Essential MCH Skills 3

Coordinated MPH-MSN in Maternal and Child Health Policy

The coordinated MPH/MSN degree is designed to address the dynamic health care needs of women and children. This program prepares nurse practitioners to participate in the development, implementation, and evaluation of innovative maternal and child health (MCH) programs and policies. This dual degree builds on the synergy generated through two complementary curriculum tracks. In this educational experience, advanced clinical skill is combined with expertise in program planning and evaluation.

Admissions: Students are admitted separately to the MPH and MSN degree programs and must meet admission requirements in both the School of Public Health and the School of Nursing at UAB.

Requirements

Hours

Core Requirements 17
BST 601 Biostatistics 4
ENH 600 Fundamentals of Environmental Health Science 3
EPI 600 Intro to Epidemiology 3
HB 600 Social and Behavioral Science Core 3
HCO 630 Introduction to Organization and Policy in Public Health 3
PUH 695 The Public Health Integrative Experience 1
SOPH Requirements 3
PUH 627 Writing & Reviewing Research for MPH Candidates 3
or GRD 727 Writing & Reviewing Research 3
Department Track Requirements 15
HCO 601 Health Economics 3
HCO 605 Fundamental of MCH Part 1: Issues, Program and Policies 3
HCO 606 Fundamentals of Maternal and Child Health Part II: Application of Essential MCH Skills 3
Coordinated MPH-MSW in Maternal and Child Health Policy (also offered fully online)

The MPH/MSW degree program is coordinated between the School of Social Work at the University of Alabama (MSW) and the Department of Health Care Organization and Policy (HCOP). The coordinated program prepares social workers for interdisciplinary practice in public health programs concerned with the promotion and improvement of the health of diverse populations, including women, children, and families. Students who have been admitted to the MSW program in the School of Social Work and wish to pursue the coordinated degree option should contact the Department of Health Care Organization and Policy. Students will attend classes in Tuscaloosa and Birmingham.

Admissions: Students who choose the coordinated degree plan will be required to first secure admission to the University of Alabama (Tuscaloosa) School of Social Work (for the MSW) and, at the end of the first semester, to apply separately to the Department of Health Care Organization and Policy (for the MPH). Acceptance in the MSW program is contingent on completion of all requirements for graduation from the other program.

Program Requirements

The MPH degree requires a minimum of 43 hours. Students in this coordinated program will be waived from the biostatistics requirement upon documentation of successful completion of Advanced Statistics I and II in the PhD program. Students may emphasize health policy issues or outcomes research issues through 6 hours of approved electives. In addition, all students must complete a 9 credit hour research project. This is a coordinated dual degree track and, as such, graduation from one program is contingent on completion of all requirements for graduation from the other program.

Students receiving a MSPH are required to complete a 13 hour online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

School of Public Health's Catalog

Coordinated MSPH-PhD in Public Health / Doctor of Philosophy (Psychology)

The department offers coordinated Master of Science in Public Health and PhD degrees in cooperation with the department of Psychology at the University of Alabama at Birmingham or at the University of Alabama (Tuscaloosa). Students must meet the admission criteria for the School of Public Health and remain in good standing in their PhD program.

Program Requirements

To be considered for this program, students must first be admitted to the PhD program in clinical psychology at UAB or in the PhD in psychology at the University of Alabama (Tuscaloosa). Students must meet the admission criteria for the School of Public Health and remain in good standing in their PhD program.

Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST 611 Biostatistics</td>
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</tr>
<tr>
<td>ENH 600 Fundamentals of Environmental Health Science</td>
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<tr>
<td>EPI 600 Intro to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HB 600 Social and Behavioral Science Core</td>
<td>3</td>
</tr>
<tr>
<td>HCO 630 Introduction to Organization and Policy in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
<td>1</td>
</tr>
<tr>
<td>SOPH Requirements</td>
<td>3</td>
</tr>
<tr>
<td>HCO 601 Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>HCO 605 Fundamental of MCH Part I: Issues, Program and Policies</td>
<td>3</td>
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<tr>
<td>HCO 606 Fundamentals of Maternal and Child Health Part II: Application of Essential MCH Skills</td>
<td>3</td>
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<tr>
<td>HCO 612 Strategic Management in Health Programs</td>
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<tr>
<td>HCO 619 Social Work in Public Health</td>
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<tr>
<td>Social Work course to be counted toward total MPH hours</td>
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<td>SW 510: Human Behav in Social Environ (taken at UA School of SW)</td>
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<td>Total Credit Hours Earned for Degree</td>
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Internship

| Internship | HCO 697 | 3 |

| Total Credit Hours Earned for Degree | 44 |

MSPH Core Requirements

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<td>BST 611 Intermediate Statistical Analysis I</td>
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<td>BST 612 Intermediate Statistical Analysis II</td>
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<tr>
<td>EPI 610 Principles of Epidemiologic Research</td>
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PhD Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
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<tr>
<td>HCO 601 Health Economics</td>
<td>3</td>
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<tr>
<td>HCO 670 Social and Ethical Issues in Public Health</td>
<td>3</td>
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<tr>
<td>HCO 677 Patient-Based Outcomes Measurement</td>
<td>3</td>
</tr>
<tr>
<td>HCO 687 Empirical Methods for Health Research</td>
<td>3</td>
</tr>
<tr>
<td>HCO 691 Policy Analysis: Modeling &amp; Simulation</td>
<td>3</td>
</tr>
<tr>
<td>HCO 721 Clinical Decision Making and Cost Effectiveness Analysis</td>
<td>3</td>
</tr>
<tr>
<td>HCO 722 Cost-Effectiveness Research Methods</td>
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<tr>
<td>Masters-Level Research</td>
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<tr>
<td>HCO 699 Master's Level Project Research Health Care Organization and Policy (Minimum of 9 hours)</td>
<td>1-9</td>
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<tr>
<td>Total Hours</td>
<td>43</td>
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</tbody>
</table>
MSPH in Outcomes Research

The health care field is placing increasing emphasis on the identification and measurement of clinical decision making and cost/utility analysis. Continuing pressure for the development and measurement of both efficient and effective protocols and health care policies is the driving force underlying this emphasis. Increasingly, employers are seeking qualified analysts to study treatment effectiveness. Graduates of this track will work in clinical settings, government agencies, managed care organizations, insurance companies, health associations, pharmaceutical firms, and consulting firms analyzing cost effectiveness, utilization and treatment effectiveness.

Admission

The track is open to students with a bachelor's degree and strong mathematics preparation. An undergraduate grade point average of a 3.0 on a 4.0 scale and a minimum combined score of 1080 on the verbal and quantitative portions of the Graduate Record Examination General Test (GRE) is desirable for admission consideration.

Students receiving a MSPH are required to complete a 3 hour Online course entitled “Overview of Public Health” by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

Program Requirements

The DrPH program must be completed within 7 years. Students who have not successfully completed their comprehensive examinations within 5 years will be subject to dismissal from the program. A minimum of 42 credit hours, exclusive of HCO courses 793 and 796-799, are required to complete the degree. Students will complete at least 15 credit hours of analytical or methodological courses, at least 15 hours of concentration-core courses, and at least 12 hours of any 700-level electives (as approved by advisor). Students must also complete the doctoral seminars (HCO 796), comprehensive examination (HCO 797), practicum (HCO 793), dissertation proposal/protocol development (HCO 798), and dissertation research (HCO 799).

Program Admission Requirements

- An MPH or equivalent degree in public health is required.
- Applicants with advanced non-public health degrees can be admitted directly into the DrPH program but must successfully complete the MPH and concentration-specific prerequisite courses.
- Applicants with a MPH or equivalent degree not in their concentration will take the necessary concentration prerequisites only.
- Applicants with only a bachelor's degree but with an exceptional academic record or rich professional experience will be considered. They must be admitted into the MPH program prior to applying to the DrPH program and complete the MPH program before being fully accepted into the DrPH program.
- Experience in public health research is required. Applicants must submit GRE scores taken within 5 years. Both the score and the percentile on each of the verbal, quantitative, and analytical writing sections of the examination will be evaluated. A minimum of 1100 (550 on each of the verbal and quantitative sections) or 156 verbal and 146 quantitative (new GRE score) is expected.
- International applicants whose native language is not English or who did not complete a degree at an English-speaking institution must submit a TOEFL with TWE test score. The minimum acceptable score is (Paper Based) 550, (Computer Based) 213, and (Internet-Based) 79-80.
- Other aspects of an applicant's record, such as educational achievement, professional experience, and clarity of career goals are helpful in determining admissibility.

DRPH Outcomes Research Curriculum

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MPH Prerequisites (Does not count towards total degree hours)</td>
<td>18-19</td>
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<tr>
<td>HCO 600 Introduction to Population Based Health Programs</td>
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</tr>
<tr>
<td>BST 611 Intermediate Statistical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>BST 612 Intermediate Statistical Analysis II</td>
<td>3</td>
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<tr>
<td>ENH 600 Fundamentals of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>EPI 600 Intro to Epidemiology</td>
<td>3</td>
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<tr>
<td>HB 600 Social and Behavioral Science Core</td>
<td>3</td>
</tr>
<tr>
<td>PUH 695 The Public Health Integrative Experience</td>
<td>1</td>
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<tr>
<td>HCO Concentration Prerequisites (Does not count toward total degree hours)</td>
<td>9</td>
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<tr>
<td>HCO 601 Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>or HCO 701 Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>HCO 670 Social and Ethical Issues in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>HCO 720 Health Insurance and Managed Care</td>
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<tr>
<td>Concentration Core</td>
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HCO 721 Clinical Decision Making and Cost Effectiveness Analysis 3
HCO 722 Cost-Effectiveness Research Methods 3
HCO 777 Patient-Based Outcomes Measures 3
HCO 791 Policy Analysis: Modeling & Simulation 3
Electives Methods Course 700 level as approved by advisor 3

Methods Core 15
BST 613 Intermediate Statis Analy III 3
HCO 728 Qualitative and Mixed Methods Research in Public Health 3
HCO 781 Research Methods ans Study Design 3
HCO 787 Empirical Methods for Health Research 3
HCO 788 Longitudinal Meth Hlth Ser Res 3
Electives 12
Must be 700 level & may be selected from anywhere within the university with advisor approval

Doctoral Seminar (1 hour in each Fall & Spring Semester - 1st 2 years only) 1
HCO 796 Doctoral Seminar 1
DrPH Practicum, Directed Readings, Dissertation Protocol Development & Research 12
HCO 793 DrPH Practicum 3-6
HCO 797 Directed Readings 3-9
HCO 798 Doctoral Level Directed Research Health Care Organization and Policy 3
HCO 799 Dissertation Research HCOP 3-9

DRPH Maternal & Child Health (MCH) Policy Curriculum

Requirements Hours

MPH Prerequisites (Does not count towards total degree hours) 18-19
HCO 600 Introduction to Population Based Health Programs 3
BST 611 Intermediate Statistical Analysis I 3
BST 612 Intermediate Statistical Analysis II 3
ENH 600 Fundamentals of Environmental Health Science 3
EPI 600 Intro to Epidemiology 3
HB 600 Social and Behavioral Science Core 3
PUH 695 The Public Health Integrative Experience (Optional) 1

Concentration Prerequisites (Does not count toward total degree hours) 14
HCO 601 Health Economics 3
HCO 605 Fundamental of MCH Part 1:Issues, Program and Policies 3
HCO 606 Fundamentals of Maternal and Child Health Part II: Application of Essential MCH Skills 3
HCO 618 Management Concepts in Public Health Programs 3
HCO 625 Advanced Leadership and Practice in MCH Part I - Introduction to Leadership 1
HCO 626 Adv Leadership and Practice in MCH Module II - Collaborative Leadership and Advocacy 1

Concentration Core 15
HCO 703 Public Health Policy - Doctoral Level 3
HCO 708 Reproductive Health 3
HCO 711 Child Health and Development: Womb to Young to Adulthood 3
HCO 713 Health Information Technology and Policy 3
HCO 772 Perinatal Hlth Issues 3

Methods Core 15
BST 613 Intermediate Statis Analy III 3
HCO 728 Qualitative and Mixed Methods Research in Public Health 3
HCO 781 Research Methods ans Study Design 3

Electives 12
Must be 700 level & may be selected from anywhere within the university with advisor approval

HCO 787 Empirical Methods for Health Research 3
HCO 788 Longitudinal Meth Hlth Ser Res 3
Doctoral Seminar (1 hour in each Fall & Spring Semester - 1st 2 years)

DrPH Practicum, Directed Readings, Dissertation Protocol Development & Research

HCO 796       HCO 793       HCO 797       HCO 798       HCO 799
Doctoral Seminar DrPH Practicum Directed Readings Directed Level Directed Research Health Care Dissertation Research HCOP

12 3-6 3-9 3 Organization and Policy 3-9

For more information please contact Brenda Campbell, Program Coordinator.

The Graduate School

Today’s researchers, scientists, and new professionals face an increasingly competitive world. This is true not only in their fields of study, but in the "survival skills," or areas of professional presenting, university teaching, writing and publishing, interdisciplinary collaboration, and the winning of grants and fellowships. Indeed, many leading institutions view these communication abilities as prerequisites for career advancement. This is why the UAB Graduate School's Professional Development Program offers ongoing support for graduate students, post-doctoral fellows and visiting scholars who want to take advantage of the school’s resources to enhance their skills. The Professional Development program offers elective graduate credit courses, day-long workshops, and free mini-workshops in a variety of areas, such as

• Career Support & Advancement
• Academic Writing & Publishing
• Teaching at the College Level
• Mentoring & Leadership
• Presentation & Discussion Skills
• Science Communications

Click on Professional Development Courses and Professional Development Workshops for a detailed list of offerings. Check out the Current Class Schedule for a list of available offerings, or visit the Professional Development website for detailed information on our free mini-workshops.

Graduate School Professional Development Program

ggraduate/profdev

Program director: Dr. Kellie Carter
Phone: (205) 975-8724
Email: kcarrier@uab.edu
Web site: http://uab-preview.courseleaf.com/graduate/theresidentschool/gradschoolprofdevelopmentprogram/

Program Information

These courses, seminars and workshops are offered to improve the academic and professional communication skills of graduate students, postdoctoral fellows, and other UAB research staff with the goals of supporting scholarship, research integrity, productivity, effective communication, and the development and refinement of professional skills.

Graduate Certificate in Mentoring & Leadership (15 credit hours)

The UAB Graduate Certificate in Mentoring & Leadership is designed to provide instruction in mentoring and leadership theory and practice, while the student develops a mentoring and leadership portfolio. For more information regarding the course requirements, visit www.uab.edu/graduate/professional-development-certificate.

Graduate Certificates in College Teaching at the CIRTL Practitioner Level (15 hours); and CIRTL Scholar Level (21 hours)

The purpose of the UAB Graduate Certificates at the CIRTL Practitioner and CIRTL Scholar levels is to enhance excellence in undergraduate education through the development of a national faculty committed to implementing and advancing effective teaching practices for diverse learners as part of successful and varied professional careers. For more information regarding course requirements, visit www.uab.edu/cirtl/teaching-certificates.

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