At the undergraduate level, students may complete programs that lead to degrees, concentrations, and minors in community health, (e.g., physical therapy, medicine, occupational therapy). The School of Education also collaborates with the College of Arts and Sciences to offer pathways to teacher certification in a wide range of teaching fields, including music, science, and mathematics.

Kinesiology, Community Health and Human Services Preparation Options. There are several non-teacher preparation options available for individuals seeking degrees at the undergraduate level. These degrees prepare students for employment in a variety of wellness, health, and fitness and sports (community, commercial, clinical, and corporate) agencies/facilities and/or admission to health-related graduate programs (e.g., physical therapy, medicine, occupational therapy). Degrees, majors, concentrations, and minors are available in community health, human services and kinesiology.

Educator Preparation Programs

At the undergraduate level, students may complete programs that lead to Alabama Class B certification in the following areas:

<table>
<thead>
<tr>
<th>Certification Area &amp; Grade Levels</th>
<th>Undergraduate Major</th>
<th>Teacher Education Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology (6-12)</td>
<td>Biology*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Chemistry (6-12)</td>
<td>Chemistry*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Early Childhood (P-3)</td>
<td>Early Childhood Education</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Early Childhood (P-3) and Elementary Education (K-6)</td>
<td>Early Childhood &amp; Elementary Education</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Elementary Education (K-6)</td>
<td>Elementary Education</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>English Language Arts (6-12)</td>
<td>High School Education/English**</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>General Science (6-12)</td>
<td>Biology, Chemistry, or Physics***</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>General Social Science (6-12)</td>
<td>High School Education/History**</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Mathematics (4-8)</td>
<td>Mathematics*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Mathematics (6-12)</td>
<td>Mathematics*</td>
<td>Curriculum &amp; Instruction</td>
</tr>
<tr>
<td>Music - Instrumental (P-12)</td>
<td>Music</td>
<td>Curriculum &amp; Instruction</td>
</tr>
</tbody>
</table>

Music - Vocal/Choir (P-12) | Music | Curriculum & Instruction |
Kinesiology (P-12) | Kinesiology (Physical Education) | Human Studies |
Physics (6-12) | Physics* | Curriculum & Instruction |

Please Note: Students seeking teacher certification in the programs above must meet all requirements for program admission, retention, completion, and certification as required by the Alabama State Department of Education (ALSDE). Alabama certification regulations are subject to change and requirements delineated in this catalog may not reflect current requirements. Therefore, students are urged to seek advisement through the Office of Student Services each term to stay abreast of current teacher certification requirements.

These baccalaureate degrees above lead to Class B certification. Once a student has successfully completed all degree and program requirements, he or she can apply for Alabama teacher certification through the School of Education Office of Student Services. The School of Education only recommends a student for certification, and the ultimate certification decision is made by the Alabama State Board of Education.

Non-Teacher Certification Programs

At the undergraduate level, students may complete non-teacher certification concentrations in the following areas:

<table>
<thead>
<tr>
<th>Program Area/ Concentration</th>
<th>Undergraduate Major</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Health</td>
<td>Community Health and Human Services</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Exercise Science</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Exercise Bioenergetics</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Fitness Leadership</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Human Services</td>
<td>Community Health and Human Services</td>
<td>Human Studies</td>
</tr>
<tr>
<td>2+2 Early Childhood Education</td>
<td>Non-Certification</td>
<td>Curriculum and Instruction</td>
</tr>
<tr>
<td>4 Year Early Childhood Education</td>
<td>Non-Certification</td>
<td>Curriculum and Instruction</td>
</tr>
</tbody>
</table>

School of Education Minors

The School of Education offers the following minors:

<table>
<thead>
<tr>
<th>Minor</th>
<th>Program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Coaching</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Community Health</td>
<td>Community Health and Human Services</td>
<td>Human Studies</td>
</tr>
<tr>
<td>Exercise Science</td>
<td>Kinesiology</td>
<td>Human Studies</td>
</tr>
</tbody>
</table>
In order to participate in the Honors Program and graduate with "Honors Designation", students must file an application with the Office of Curriculum & Instruction (Room 100) following an invitation from the respective program area. Following acceptance, students must enroll and complete the following two Education Honors Courses: EDH 491 - Honors Education Research and EDH 492 - Honors Education Service Project. Students must maintain an overall GPA of 3.0 or above and 3.25 in education courses through graduation.

EDH 491 - Education Research. Prerequisite: admission into the EEC Honors Program.

EDH 492 - Honors Education Service Project. Prerequisite: admission into the EEC Honors Program and completion of EHS 491.

Admission and Program of Student Requirements

Admission and program of student requirements for all undergraduate degrees, majors, and concentrations may be located at http://www.uab.edu/soestudentservices/admissions/checklists/undergraduate/bachelors

TEP Retention Requirements

A student may be dropped from the Teacher Education Program for failure to maintain satisfactory academic performance or professional dispositions as described by School of Education policy. Consistent with UAB policy on readmission, students readmitted to UAB must complete all program requirements, including TEP admissions and retention and completion requirements as outlined in the catalog under which they are officially readmitted.

1. Additional retention requirements by program:
   a. Early Childhood/Elementary Education
      i) Grade of "C" or better in all Pedagogy I courses and a GPA of 3.0 or higher in the Pedagogy I courses.
      ii) Grade of "C" or better in all Pedagogy II courses and a GPA of 3.0 or higher in the Pedagogy II courses.

Student Teaching Requirements

All students seeking baccalaureate degrees leading to teaching certificates must participate in a student teaching internship. All students must apply for student teaching by January 31 of the academic year that precedes student teaching. Applications are available online at the School of Education website, Office of Clinical Experiences. For additional information contact the Office of Clinical Experiences in Suite 232 of the Education Building.

To be eligible for this internship, students must have an approved student teaching application based on the following:

Early Childhood/Elementary Education:

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Early Childhood/Elementary program.
3. Minimum higher education GPA of 2.75.
4. Minimum GPA of 2.75 in core curriculum courses.
5. Minimum GPA of 2.75 in all Professional Studies courses.
6. Minimum GPA of 2.75 in all Teaching Field courses.
7. Completion of all methods courses, see Teaching Field for respective Checklist.
8. Passing score on Praxis I and all appropriate Praxis II and the edTPA.
9. Demonstration of the dispositions needed to be a successful teacher of middle and high school students, including students with special needs.
10. Documentation of requisite field experience hours in schools.
11. Criminal history background check status shown as "cleared" on the Alabama State Department of Education database.

TEP Completion and Certification Requirements

A student who satisfies TEP admission and retention requirements and who meets the following completion requirements will be recommended for "Class B" teacher certification. Students must apply for certification. Certification application packets are available on the School of Education-Office of Student Services website www.uab.edu/soestudentservices and should be completed and returned to the Office of Student Services, Suite 232, Education Building during the semester of program completion.

1. Students must have a minimum 2.75 higher education GPA, 2.75 teaching field GPA, and 2.75 professional studies GPA with no grade below "C" in professional studies courses.
2. Students must complete all courses on the Alabama State Board of Education approved checklist for the teaching field(s) in which certification is sought.
3. Students must demonstrate readiness to teach through on-the-job performance as a student teacher. This evaluation is conducted by the School of Education faculty and appropriate personnel from local school systems.
4. Students must document a passing score on the Praxis I and all appropriate Praxis II and the edTPA. Official score reports must be sent to both UAB and the Alabama State Department of Education.
5. The Alabama State Department of Education has additional requirements for teacher certification. Included in these fees associated with obtaining a certificate which are set by legislative action and may be changed. Students seeking initial certification are required to obtain background clearance to determine any criminal history through a fingerprint review conducted by the Alabama Bureau of Investigation (ABI) and the Federal Bureau of Investigation (FBI) prior to the issuance of a teaching certificate. A current application and fee payment for official transcripts are also required. Information on these requirements is available in the Office of Student Services, in EEC 311 in the Education and Engineering Complex, and is included in the certification application packet.

High School and Middle School Education:

1. Formal admission to the Teacher Education Program (TEP).
2. Student teaching application approved by the faculty in the Kinesiology program.
3. Minimum higher education GPA of 2.75.
4. Minimum GPA of 2.75 in core curriculum courses.
5. Minimum GPA of 2.75 in all Professional Studies courses.

Teacher Certification for Students who Hold a Baccalaureate Degree

There are several routes to teacher certification in the state of Alabama for those who already hold a baccalaureate degree. One option is to return to school to complete the current undergraduate coursework required for teacher certification. In general, individuals exercising this option are required to meet the same requirements for admission to,
UABTeach

http://www.uab.edu/uabteach/

Program Director

Dr. Paulette Evans
UAB School of Education / Department of Curriculum and Instruction
(205) 975-7419
pjevans@uab.edu

UABTeach is the program for all students seeking certification to teach secondary school (grades 6-12) in the sciences and mathematics, and in middle school mathematics (grades 4-8), with an undergraduate degree. It is a cooperative program among the College of Arts and Sciences (CAS), the School of Education, and the School of Engineering. To obtain teaching certification in Chemistry, Biology, Physics, General Science, or Mathematics, students major in their STEM field (Science, Technology, Engineering, and Mathematics) and participate in the UABTeach program. UABTeach is not a major, but rather leads to a minor in STEM Education (through the School of Education) and a Class B teaching certificate. Students considering seeking teaching certification in a STEM field should contact both their STEM advisor and the UABTeach advisor (HHB 210, 205-975-9920, UABTeach).

UABTeach consists of a sequence of eight courses (24 credit hours), ideally taken over seven semesters as outlined below. Courses with an EHS prefix are normally taken in sequence. However, there are pathways for students entering UABTeach after the first semester of their freshman year, and up until the first semester of their junior year, described in detail on the UABTeach website, which allow some overlap of courses. Normally, students can complete the UABTeach courses without adding any additional time to their degree, provided they are on schedule in their STEM major, and have not already begun their junior year. Currently, UABTeach courses are offered only in Fall and Spring semesters.

- Semester 1: Step1, Inquiry Approaches to Teaching (EHS 125, 1 hour; also counts as First Year Experience course in CAS)
- Semester 2: Step2, Inquiry-Based Lesson Design (EHS 126, 1 hour)
- Semester 3: Knowing and Learning in Mathematics and Science (EHS 325, 3 hours)
- Semester 4: Perspectives on Science and Mathematics (HY 275) or Science, Knowledge, and Reality (PHL 270, 3 hours)
- Semester 5: Classroom Interactions (EHS 326, 3 hours)
- Semester 6: Project-Based Instruction (EHS 327, 3 hours)
- Semester 7: Apprentice Teaching (EHS 425 and EHS 426, 7 hours)

The following table lists the currently available certifications, and the majors leading to them, under UABTeach.

<table>
<thead>
<tr>
<th>Class B Certification</th>
<th>Grade Level</th>
<th>Applicable Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>6-12</td>
<td>Biology, Biomedical Engineering, Biomedical Sciences</td>
</tr>
<tr>
<td>Chemistry</td>
<td>6-12</td>
<td>Chemistry, Chemistry-Chemical Education Track</td>
</tr>
<tr>
<td>General Science</td>
<td>6-12</td>
<td>Biophysics, Materials Engineering, Mechanical Engineering, Neuroscience</td>
</tr>
</tbody>
</table>

Mathematics: 6-12
- Mathematics, Civil Engineering, Electrical Engineering, Computer Science

Physics: 6-12
- Physics

Computer Science: K-12
- Mathematics

Students can begin the program in either fall or spring semesters. For more information, please visit the UABTeach website: http://www.uab.edu/uabteach/

Minor in STEM (Science, Technology, Engineering, and Math) Education

The STEM Education Minor includes the same courses UABTeach students take to earn Alabama teacher certification. So UABTeach students can add a minor with no additional coursework and have an element of their academic transcript reflect the work they have done to prepare themselves for teaching. The STEM Education Minor also includes an elective pathway designed to allow UABTeach students who elect not to complete Apprentice Teaching (EHS 425) and their certification requirements to add education electives to bring their minor coursework up to the required minimum of 18 hours.

Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 125</td>
<td>Inquiry Approaches to Teaching</td>
</tr>
<tr>
<td>EHS 126</td>
<td>Step 2: Inquiry Based Lesson Designs</td>
</tr>
<tr>
<td>EHS 325</td>
<td>Knowing and Learning in Mathematics and Science</td>
</tr>
<tr>
<td>EHS 326</td>
<td>Classroom Interactions</td>
</tr>
<tr>
<td>PHL 270 or HY 275</td>
<td>Science, Knowledge, and Reality</td>
</tr>
<tr>
<td>EHS 327</td>
<td>Problem-Based Instruction</td>
</tr>
</tbody>
</table>

Teaching Courses

<table>
<thead>
<tr>
<th>TEP Admission required before taking the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 327</td>
</tr>
</tbody>
</table>

Internship

<table>
<thead>
<tr>
<th>EHS 425</th>
<th>Apprentice Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 426</td>
<td>Apprentice Teaching Seminar</td>
</tr>
</tbody>
</table>

Total Hours: 21
EDU-Education Courses

EDU 100. Touch the Future. 2-3 Hours.
Introduction to education for students with the intent to be teachers and students entering professions where a degree in education would be beneficial. Students own experiences will be used as input for developing habits of mind and dispositions necessary for success in the field of education. Required for entering freshmen education majors.

EDU 200. Education as a Profession. 3 Hours.
Formal introduction to the Teacher Education Program (TEP). Using writing and discussion, the class provides a clear and realistic understanding of issues involved in choosing education as a career. Writing is a significant component of this course. Field experience required.

EDU 210. Writing and Speaking Skills for the Education Professional. 3 Hours.
Development of essential writing and speaking skills required for successful education practice. Writing is a significant component of this course.

EDU 300. Special Topics in Education. 3 Hours.
This course will focus on various topics currently trending in education.

EDU 425. Stem Applications for the Classroom. 1 Hour.
This course will familiarize teacher candidates with STEM applications in the classroom, including state initiatives such as Alabama Math and Science Initiative (AMSTI).

EDU 481. Student Teaching. 1-9 Hour.
Supervised teaching experience that includes individual mentoring and candidate support in meeting Alabama Educator Certification Assessment Program requirements.

GEO-Geography Courses

GEO 101. Intro to Geography. 3 Hours.
Basic concepts and principles underlying major research traditions of geography, including earth science, culture-environment, and location and area analysis.

GEO 109. Intro to Urban Geography. 3 Hours.
External and internal spatial processes of cities and city systems with emphasis on contemporary urban problems.

GEO 121. World Regional Geography. 3 Hours.
Modern worlds great culture realms using basic ideas and concepts in field of geography.

GEO 221. Geography of North America. 3 Hours.
Nature and character of places, especially as caused by relationship between human beings and environment.

GEO 304. Looking at Earth: Maps Satellite Images and GIS. 3 Hours.
Introduction to maps as analytic tools in the social behavioral, and applied sciences. Students are provided training in the theory and methodsof cartographic representation, aerial and satellite image analysis and geographic information system. Equal weight will be placed on first priciples, practical training in computer methods, and case studies selected from different regions of the earth.
Prerequisites: GEO 101 [Min Grade: C]

GEO 415. Political Economy/Race in Bham. 3 Hours.
Critical analysis of race in the political economy of Birmingham from the postbellum period to the era of Civil Rights.

GEO 491. Environmental Policy. 3 Hours.
Institutions,processes, actors and key issues in environmental policy.