

# UABTeach

## UABTeach

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

### Program Director

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UABTeach supports the STEM Education minor for students seeking mathematics and science teaching certification in secondary, grades 6-12. UABTeach also supports middle school mathematics teaching certification, grades 4-8. The STEM Education minor can only be completed with an undergraduate STEM degree. UABTeach is a cooperative program among the College of Arts and Sciences, the School of Education and Human Sciences, the School of Health Professions, and the School of Engineering. To obtain teaching certification, through our STEM Education minor, students must major in a STEM field (Science, Technology, Engineering, and Mathematics). UABTeach is not a major, but rather leads to a minor in STEM Education (through the School of Education and Human Sciences) and a Class B teaching certificate. Students seeking teaching certification in a STEM field should contact both their STEM advisor and the UABTeach advisor (HHB 210, 205-975-7419, UABTeach).

UABTeach consists of a sequence of eight courses (21 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. Currently, UABTeach courses are offered only during fall and spring terms.

- Semester 1: Step 1, Inquiry Approaches to Teaching (EHS 125, 1 hour)
- Semester 2: Step 2, Inquiry-Based Lesson Design (EHS 126, 1 hour)
- Semester 3: Knowing and Learning in Mathematics and Science (EHS 325, 3 hours)
- Semester 4: Perspectives on Science and Mathematics (HY 275) **or** Science, Knowledge, and Reality (PHL 270, 3 hours)
- Semester 5: Classroom Interactions (EHS 326, 3 hours)
- Semester 6: Problem-Based Instruction (EHS 327, 3 hours)
- Semester 7: Apprentice Teaching (EHS 425, 6 hours and EHS 426, 1 hour)

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

Class B Certification	Grade Level	Applicable Majors
Biology	6-12	Biology, Biomedical Engineering, Biomedical Sciences, Cancer Biology, Genetics & Genomic Sciences, Immunology
Chemistry	6-12	Chemistry, Chemistry-Chemical Education Track
General Science	6-12	Biology, Biomedical Engineering, Biomedical Sciences, Biophysics, Cancer Biology, Chemistry, Chemistry-Chemical Education Track, Genetics & Genomic Sciences, Immunology, Materials Engineering, Mechanical Engineering, Neuroscience, Physics
Mathematics	6-12	Mathematics, Civil Engineering, Electrical Engineering, Computer Science (BS)
Mathematics, Middle School	4-8	Mathematics-Mathematical Reasoning Track
Physics	6-12	Physics, Biophysics

Students can begin the program in fall or spring semesters. For more information, please visit the UABTeach website: <http://www.uab.edu/uabteach/> or email at [uabteach@uab.edu](mailto:uabteach@uab.edu).

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

The STEM Education Minor includes the same core courses UABTeach students take to earn Alabama teacher certification. The STEM Education Minor also includes an elective pathway designed to allow UABTeach students wishing not to complete Apprentice Teaching (EHS 425) and associated certification requirements by adding education electives to bring their minor coursework up to 21 hours.

Requirements		Hours
EHS 125	Step 1: Inquiry Approaches to Teaching	1
EHS 126	Step 2: Inquiry Based Lesson Designs	1
EHS 325	Knowing and Learning in Mathematics and Science	3
EHS 326	Classroom Interactions	3
PHL 270 or HY 275	Science, Knowledge, and Reality Perspectives on Science & Mathematics	3
<b>Teaching Courses</b>		
TEP Admission required before taking the following:		
EHS 327	Problem-Based Instruction	3
<b>Internship</b>		
EHS 425	Apprentice Teaching	6

EHS 426	Apprentice Teaching Seminar	1
<b>Total Hours</b>		<b>21</b>