

# UFTEACH | MATHEMATICS, SCIENCE, OR COMPUTER SCIENCE MINOR

The UFTeach Mathematics, Science, or Computer Science minor is appropriate for students who wish to teach mathematics or science at the middle school and high school levels in Florida. This is an alternative certification program, specifically a Professional Training Option (PTO), meant to prepare math and science students for temporary teacher certification in Florida. Professional teacher certification is attainable after one year of successful teaching in a Florida public school.

More Info (<https://education.ufl.edu/uf-teach/>)

## About this Program

- *For students majoring in STEM disciplines*
- **College:** Education (<http://catalog.ufl.edu/UGRD/colleges-schools/UGEDU/>)
- **Credits:**
  - Mathematics | 22, completed with minimum grades of C
  - Science | 22, completed with minimum grades of C
  - Computer Science | 22, completed with minimum grades of C
- **Contact**

## School Information

With more than three-dozen faculty and students from all over the world, the School of Teaching & Learning offers on-campus and online programs in a diverse range of subjects in education.

**Website** (<https://education.ufl.edu/school-teaching-learning/>)

## CONTACT

352.273.4214

P.O. Box 117048

2821 NORMAN HALL

GAINESVILLE FL 32611-7048

Map (<http://campusmap.ufl.edu/#/index/0007>)

## Curriculum

- Education Sciences
- Education Sciences UF Online
- Education Studies Minor
- Educational Technology Minor
- Educational Technology Minor UF Online
- Elementary Education | Grades K-6
- Elementary Education | Grades K-6 UF Online
- Florida Teaching Minor
- UFTeach | Mathematics, Science, or Computer Science Minor

## Mathematics

### UFTeach | Mathematics

The minor requires completion of coursework in the professional preparation areas of human development, learning, assessment, classroom management, instructional strategies, reading competency, curriculum and special methods. Students will have extensive opportunities to integrate their teacher education coursework with practice in formal and informal K-12 environments focusing on learning mathematics. This program includes field experiences in local schools. A level 2 background check (fingerprinting) by the School Board of Alachua County will be required before placement.

The minor is open to undergraduates with majors in mathematics, quantitative science or related fields. Admission to this minor requires a UF GPA of 2.5 or better. Students must apply for acceptance to the minor within the college of their major and the College of Education after 45 but before 100 credits are earned.

More Info (<https://www.advising.ufl.edu/academicinfo/minors/>)

Those pursuing the minor are encouraged to complete the Florida Teacher Certification Examination (FTCE) General Knowledge Test (recommended in the junior year), the FTCE Subject Area Exam (recommended early in the senior year) and the FTCE Professional Education Test (recommended mid-senior year).

More Info (<http://fl.nesinc.com/>)

*FTCE tests are not required for award of the minor, but they are required for certification.*

## Required Courses

Multiple pathways exist for completion of the minor and should be discussed with the UFTeach advisor. The table below represents a recommended pathway.

Course	Title	Credits
First Year		
MAE 2364	Explorations Teaching Secondary Mathematics and Science (Fall / Spring)	3
SMT 3100	Knowing and Learning in Mathematics and Science Teaching (Spring)	3
TSL 3323	ESOL and Reading for Teachers (Fall / Spring / Summer)	3
	Credits	9
Second Year		
SMT 3301C	Classroom Interactions in Mathematics and Science Education (Spring)	3
SMT 3664	Project-Based Instruction in Math and Science Education (Fall)	3
	Credits	6
Third Year		
Select one or more course:		3
MAT 3503	Functions and Modeling (Fall)	1
Special topics course in College of Education (3000 or 4000 level / Term varies)		
Research methods course or undergraduate research in department of major or College of Education (3000 or 4000 level / Term varies)		
	Credits	3
Fourth Year		
SMT 4945	Apprenticeship in Secondary STEM Teaching	4
	Credits	4
	Total Credits	22

<sup>1</sup> Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.

## Science

### UFTeach | Science

The minor requires completion of coursework in the professional preparation areas of human development and learning, assessment, classroom management, instructional strategies, reading competency, and curriculum and special methods. Students will have extensive opportunities to integrate their teacher education coursework with practice in formal and informal K-12 environments focused on learning science. This program includes field experiences in local schools. A level 2 background check (fingerprinting) by the School Board of Alachua County will be required before placement.

The minor is open to all CLAS and CALS undergraduate science majors and to engineering majors in any discipline. Admission to this minor requires a UF GPA of 2.5 or better. Students must apply for acceptance to the minor within the college of their major and the College of Education after 45 but before 100 credits are earned.

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SMT 3100	Knowing and Learning in Mathematics and Science Teaching (Spring)	3
TSL 3323	ESOL and Reading for Teachers (Fall / Spring / Summer)	3
	<b>Credits</b>	<b>9</b>
<b>Second Year</b>		
SMT 3301C	Classroom Interactions in Mathematics and Science Education (Spring)	3
SMT 3664	Project-Based Instruction in Math and Science Education (Fall)	3
	<b>Credits</b>	<b>6</b>
<b>Third Year</b>		
Select one or more courses:		3
MAT 3503	Functions and Modeling (Fall)	
Special topics course in College of Education (3000 or 4000 level / Term varies) <sup>1</sup>		
Research methods course or undergraduate research in department of major or College of Education (3000 or 4000 level / Term varies)		
	<b>Credits</b>	<b>3</b>
<b>Fourth Year</b>		
SMT 4945	Apprenticeship in Secondary STEM Teaching	4
	<b>Credits</b>	<b>4</b>
	<b>Total Credits</b>	<b>22</b>

<sup>1</sup> Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.

## Computer Science

### UFTeach | Computer Science

The minor requires completion of coursework in the professional preparation areas of human development and learning, assessment, classroom management, instructional strategies, reading competency, and curriculum and special methods. Students have extensive opportunities to integrate their teacher education coursework with practice in formal and informal K-12 environments focused on learning computer science. This program includes field experiences in local schools. A level 2 background check (fingerprinting) by the School Board of Alachua County will be required before placement.

The minor is open to all CLAS undergraduate computer science majors and to engineering computer science and computer engineering majors. Admission to this minor requires a UF GPA of 2.5 or better. Students must apply for acceptance to the minor within the college of their major and the College of Education after 45 but before 100 credits are earned.  
More Info (<https://www.advising.ufl.edu/academicinfo/minors/>)

Those pursuing the minor are encouraged to complete the Florida Teacher Certification Examination (FTCE) General Knowledge Test (recommended in the junior year), the FTCE Subject Area Exam (recommended early in the senior year) and the FTCE Professional Education Test (recommended mid-senior year).  
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SMT 3100	Knowing and Learning in Mathematics and Science Teaching (Spring)	3
TSL 3323	ESOL and Reading for Teachers (Fall / Spring / Summer)	3
	<b>Credits</b>	<b>9</b>
<b>Second Year</b>		
SMT 3301C	Classroom Interactions in Mathematics and Science Education (Spring)	3
SMT 3664	Project-Based Instruction in Math and Science Education (Fall)	3
	<b>Credits</b>	<b>6</b>

Third Year

Select one or more courses:		3
ECT 3353	K-12 Computer Science Methods	
Special topics course in College of Education (3000 or 4000 level / Term varies) <sup>1</sup>		
Research methods course or undergraduate research in department of major or College of Education (3000 or 4000 level / Term varies)		

	Credits	3
Fourth Year		
SMT 4945	Apprenticeship in Secondary STEM Teaching	4
	Credits	4
	Total Credits	22

<sup>1</sup> Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.