

Cover Sheet: Request 11936

UFTeach Science Minor

Info

Process	Minor Modify/Ugrad
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Gayle Evans gnevans@coe.ufl.edu
Created	10/18/2017 9:07:30 AM
Updated	3/16/2018 1:05:35 PM
Description of request	A revision to the UFTeach Science Minor is proposed due to required courses no longer being offered, and to reduce the total credit hours.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	COE - School of Teaching and Learning 011805000	Ester De Jong		10/23/2017
No document changes					
College	Approved	COE - College of Education	Nancy Waldron		2/23/2018
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Angela Lindner		2/26/2018
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/26/2018
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Minor|Modify for request 11936

Info

Request: UFTeach Science Minor

Description of request: A revision to the UFTeach Science Minor is proposed due to required courses no longer being offered, and to reduce the total credit hours.

Submitter: Gayle Evans gnevans@coe.ufl.edu

Created: 3/16/2018 1:20:13 PM

Form version: 9

Responses

Name UFTeach Science

Code UTS

Effective Term Earliest Available

Effective Year 2018

Proposed Changes UFTeach Science Minor is currently 25 credits. We would remove HPS 3003 "Perspectives in Science and Mathematics" and create an option where instead of students being required to take ISC3523C "Research Methods", Students would select one course (3 credits) from the following list:

(A) 3000 or 4000 level research methods course or undergraduate research credits (3cr) in the department of their major or the College of Education),

(B) 3000 or 4000 level special topics course in college of Education: Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.

All other required courses would stay the same.

In total students, would accrue a minimum of 22 credits to complete the UFTeach Science minor.

Pedagogical Rationale/Justification Our proposed UFTeach Science minor incorporates:

(A) 19 credits of foundational coursework including pedagogy (human development and learning, assessment, classroom management, instructional strategies, reading competency, and curriculum and special methods) and clinical experience (incorporated into MAE 2364, SMT 3301C, and SMT 4945).

(B) In addition, students will be required to select one or more courses / research experiences (three additional credits) that would give them advanced knowledge and/or experience in science education.

In total students, would accrue a minimum of 22 credits to complete the UFTeach minor.

UFTeach Science Minor is currently 25 credits. Surveys of our students indicate that having this many credits presents a challenge for many of our students to successfully complete the minor before graduation. This minor is intended for students who have declared STEM majors, which tend to be more proscribed and credit heavy in themselves. Furthermore, some of the required courses are no longer consistently being offered, thus creating a barrier for timely completion for our students (notably HPS 3003 "Perspectives in Science and Mathematics" and ISC 3523C "Research Methods").

Because the minor is intended to prepare students for temporary teaching certification in secondary science, we have preserved the courses with embedded clinical experiences, and necessary components required towards professional certification (reading, educational psychology, classroom management, curriculum and special methods).

Impact on Other Programs The proposed changes were brought about by a situation in which courses towards our minor previously offered by the College of Liberal Arts and Sciences (HPS3003, ISC3523C) have been discontinued as regular or consistent course offerings. As a result, the proposed changes are not expected to negatively impact any other programs. The School of Teaching and Learning has already been accommodating students taking research credits as a substitute for ISC 3523C and that is expected to continue at a similar level after the minor amendment.

UF Teach Mathematics or Science Education minor for Students Majoring in STEM disciplines.

Current UF Teach Minor as listed in the UF Undergraduate Catalog:

<https://catalog.ufl.edu/ugrad/current/education/Minors/uf-teach-minor.aspx>

UF Teach Mathematics or Science

UF Teach Mathematics UF Teach Science

UF Teach: Science

The UF Teach minor in science is appropriate for students who wish to teach 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 science students for temporary teacher certification in Florida. Professional teacher certification is attainable after one year of successful teaching in a Florida public school.

About this Minor

- College: [Education](#)
- Credits: 22, completed with minimum grades of C in each course towards the minor.25, completed with minimum grades of C
- Contact: <https://education.ufl.edu/uf-teach/>

~~Email: 175 Norman Hall; 352.273.4163 or~~

~~Email: 220 Chemistry Laboratory Building; 352.392.7369~~

~~[Additional Information](#)~~

~~[Related Teaching Programs](#)~~

Overview

~~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 ~~actual K-12 science classroom experience~~. 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 (see <https://www.advising.ufl.edu/academicinfo/minors/> for more information).~~

~~a cumulative 2.5 GPA. Students must make written application for admission to the minor in G416 Norman Hall after 45 and before 100 credits earned.~~

~~Those pursuing the minor are encouraged to complete the Florida Teacher Certification Examination (FTCE) General Knowledge Test (recommended in the junior year), the FTCE~~

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Subject Area Exam (recommended early in the senior year) and the FTCE Professional Education Test (recommended mid-senior year).

FTCE tests are not required for award of the minor, but they are required for [teacher certification](#).

Required Courses

~~This is the sequence for beginning as a first-year freshman.~~ Multiple pathways exist for ~~accelerated~~ completion of the minor and ~~should can~~ be discussed with the [UFTeach](#) advisor.

The table below represents a recommended pathway.

Required Courses (19 Credits)			
<u>Courses</u>		<u>Credits</u>	<u>Term(s) offered</u>
<u>First Year</u>			
<u>MAE 2364</u>	<u>Explorations in Teaching Secondary Mathematics and Science</u>	<u>3</u>	<u>Fall / Spring</u>
<u>SMT 3100</u>	<u>Knowing and Learning in Mathematics and Science Teaching</u>	<u>3</u>	<u>Spring</u>
<u>RED 3312</u>	<u>Content Area Literacy (or equivalent reading / ESOL course)</u>	<u>3</u>	<u>Fall / Spring / Summer</u>
<u>Second Year</u>			
<u>SMT 3301C</u>	<u>Classroom Interactions</u>	<u>3</u>	<u>Fall</u>
<u>SMT 3664</u>	<u>Project Based Instruction in Math and Science Education</u>	<u>3</u>	<u>Spring</u>
<u>Third Year</u>			
<u>Choose one or more of the following courses (3+ credits)</u>			
<u>3000 or 4000 level</u>	<u>A Research Methods course <i>or</i> Undergraduate Research in department of Major or College of Education</u>	<u>3</u>	<u>Varies</u>
<u>MAT 3503</u>	<u>Functions and Modelling</u>	<u>3</u>	<u>Fall</u>
<u>3000 or 4000 level</u>	<u>Special topics course in college of Education: Educational Technology, Educational Policy, Informal</u>	<u>3</u>	<u>Varies</u>

	<u>Education, Special Education, Educational Psychology, Assessment, etc.</u>		
<u>Fourth Year</u>			
<u>SMT4945</u>	<u>Apprenticeship in Secondary Mathematics and Science Teaching</u>	<u>4</u>	<u>Fall / Spring</u>