

Cover Sheet: Request 11926

UFTeach Mathematics Minor

Info

Process	Minor Modify/Ugrad
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Gayle Evans gnevans@coe.ufl.edu
Created	10/16/2017 4:04:30 PM
Updated	3/16/2018 12:49:48 PM
Description of request	A revision to the UFTeach Mathematics Minor is proposed due to required courses no longer being offered, and to reduce the total credit hours which should make the minor accessible to more students.

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 11926

Info

Request: UFTeach Mathematics Minor

Description of request: A revision to the UFTeach Mathematics Minor is proposed due to required courses no longer being offered, and to reduce the total credit hours which should make the minor accessible to more students.

Submitter: Gayle Evans gnevans@coe.ufl.edu

Created: 3/16/2018 1:20:34 PM

Form version: 8

Responses

Name UFTeach Mathematics

Code UTM

Effective Term Earliest Available

Effective Year 2017

Proposed Changes UFTeach Mathematics Minor is currently 28 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", and MAT3503 "Functions and Modeling" Students would select one course (3 credits) from the following list:

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

(B) MAT 3503 "Functions and Modeling",

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

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

Pedagogical Rationale/Justification Our proposed UFTeach Mathematics 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 mathematics education.

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

UFTeach Mathematics Minor is currently 28 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, two of the required courses are no longer consistently being offered, thus creating a barrier for timely completion for our students (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 mathematics, 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). The the course we propose to eliminate, HPS 3003 "Perspectives in Science and Mathematics" does not represent a needed component for teaching certification. The remaining three credit requirement, which we are proposing to offer as a choice among three options reflects the value we place in the skills represented (research experience, greater understanding of functions and modelling or advanced study in educational issues and topics) and our desire to allow students greater flexibility in their choice of courses depending on their

particular career aspirations.

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, and potentially MAT3503) have been discontinued as consistent / regular offerings. As a result the proposed changes would not 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. A version of the "Functions and Modeling" may potentially be developed by college of education, mathematics education faculty if there is great enough student demand.

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: Mathematics

The *UF Teach* minor in mathematics is appropriate for students who wish to teach mathematics 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 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:** ~~2822~~, completed with minimum grades of C [in each course towards the minor](#).
- **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 focusing on learning mathematics](#)~~actual K-12 mathematics 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 undergraduates with majors in mathematics, quantitative science or related fields. Admission to this minor requires a ~~cumulative UF~~ GPA of 2.5 ~~or better~~ GPA. [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 \(see <https://www.advising.ufl.edu/academicinfo/minors/> for more information\).](#)

~~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 certification.

Required Courses

This is the sequence for beginning as a first-year freshman. Multiple pathways exist for accelerated completion of the minor and ~~can~~ should be discussed with the [UF Teach](#) advisor. The table below represents a recommended pathway.

<u>Required Courses (19 Credits)</u>			
<u>Courses</u>		<u>Credits</u>	<u>Term(s) offered</u>
First Year			
MAE 2364	Explorations in Teaching Secondary Mathematics and Science	3	Fall / Spring
SMT 3100	Knowing and Learning in Mathematics and Science Teaching	3	Spring
RED 3312	Content Area Literacy (or equivalent reading / ESOL course)	3	Fall / Spring / Summer Varies
Second Year			
SMT 3301C	Classroom Interactions	3	Fall
SMT 3664	Project Based Instruction in Math and Science Education	3	Spring
Third Year			
Choose one or more of the following courses (3+ credits)			
ISC 3523C xxx 4911, xxx 4912, etc. 3000 or 4000 level	A Research Methods course or Undergraduate Research in department of Major or College of Education	3	Varies
MAT 3503	Functions and Modelling	3	Fall
3000 or 4000 level	Special topics course in college of Education: Educational Technology, Educational Policy, Informal Education, Special Education, Educational Psychology, Assessment, etc.	3	Varies

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<u>Fourth Year</u>			
<u>SMT4945</u>	<u>Apprenticeship in Secondary Mathematics and Science Teaching</u>	<u>4</u>	<u>Fall / Spring</u>
