Undergraduate Major Map

Catalog Year: 2015
College / School: Arts and Sciences
Major: Mathematics - BA
Track / Concentration: Mathematics Education Major
Career Path: Two Year Transfer

**Fall Term 2015**

Students in the major must pass all four parts (English Language Skills, Essay, Reading Comprehension, & Mathematics) of the FTCE General Knowledge Test prior to admission into the degree program.

Please see Secondary Education Advisor - 305-348-2978.

<table>
<thead>
<tr>
<th>Course Group</th>
<th>Course Required</th>
<th>Course Description</th>
<th>Credit Hours</th>
<th>Critical Indicator</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Education</td>
<td>MAE 3651</td>
<td>Learn Math W/Tech</td>
<td>3</td>
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<td>Mathematics Required</td>
<td>MAA 3200</td>
<td>Intro To Adv Math</td>
<td>3</td>
<td>C+</td>
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<td>Mathematics Education</td>
<td>MAE 3893</td>
<td>Math Ed Seminar</td>
<td>1</td>
<td>C+</td>
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<tr>
<td>Mathematics Required - Statistics</td>
<td>MAE 3933</td>
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<tr>
<td>Mathematics Education</td>
<td>MAE 3933</td>
<td>Nature of Math and Science</td>
<td>3</td>
<td>C+</td>
<td>Field Hours. Fingerprint clearance required.</td>
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<tr>
<td>Mathematics Education</td>
<td>RED 4325</td>
<td>Subj Area Reading</td>
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</table>

**Spring Term 2016**

May use MAE4394 to satisfy the Global Learning requirement. See endnotes.

Begin preparations for FTCE Subject Area and Professional Educator exams.

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<tr>
<td>Mathematics Core</td>
<td>MAS 3105</td>
<td>Linear Algebra</td>
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<td>C+</td>
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<tr>
<td>Mathematics Required</td>
<td>MAE 3894</td>
<td>Teaching Experience</td>
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<tr>
<td>Mathematics Education</td>
<td>MAE 4394</td>
<td>Perspective Math/Sci Ed</td>
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<td>Field Hours. Fingerprint clearance required.</td>
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<td>Mathematics Core</td>
<td>MAD 2104</td>
<td>Discrete Mathematics</td>
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<tr>
<td>General Electives</td>
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</tr>
</tbody>
</table>
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**Summer Term 2016**
Apply for Student Teaching through Office of Field Experience by June 1st.

Take and Pass:
1. FTCE Professional Educator Exam
2. FTCE Subject Area Exam

May use TSL 4324 to satisfy Global Learning requirement. See endnotes.

<table>
<thead>
<tr>
<th>Course Group</th>
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<th>Course Description</th>
<th>Credit Hours</th>
<th>Critical Indicator</th>
<th>Course Notes</th>
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</thead>
<tbody>
<tr>
<td>Mathematics Required</td>
<td>MAS 4203</td>
<td>Number Theory</td>
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<td>Mathematics Education</td>
<td>TSL 4324</td>
<td>ESOL Content Areas</td>
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<td>Field Hours. Fingerprint clearance required.</td>
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</tbody>
</table>

**Term GPA:** 2  
**Term Hours:** 6  
**Cum GPA:** 2.5

**Fall Term 2016**
All coursework and FTCE exams MUST be completed PRIOR to placement in Student Teaching.

Apply for Spring Graduation.

<table>
<thead>
<tr>
<th>Course Group</th>
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</thead>
<tbody>
<tr>
<td>Mathematics Required</td>
<td>MTG 3212</td>
<td>College Geometry</td>
<td>3</td>
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<tr>
<td>Mathematics Required</td>
<td>MHF 3404</td>
<td>History Of Math</td>
<td>3</td>
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<tr>
<td>Mathematics Required</td>
<td></td>
<td></td>
<td>4</td>
<td>C+</td>
<td>MAP 4104 (formerly MAP 3103/3103L)</td>
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<tr>
<td>Mathematics Education</td>
<td>MAE 4330</td>
<td>Spec Teach Lab Math</td>
<td>4</td>
<td>B</td>
<td>Field Hours. Fingerprint clearance required.</td>
</tr>
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</table>

**Term GPA:** 2  
**Term Hours:** 14  
**Cum GPA:** 2.5

**Spring Term 2017**
Student teaching is a full-time teaching experience and requires commitment during school hours along with preparation and grading time.

<table>
<thead>
<tr>
<th>Course Group</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Required</td>
<td>MAT 4510</td>
<td>Problem Solving Seminar</td>
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<td>Mathematics Education</td>
<td>MAE 4942</td>
<td>Student Teaching</td>
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</table>

**Term GPA:** 2  
**Term Hours:** 12  
**Cum GPA:** 2.5

**General Requirements**

Prerequisites for Major:
Equivalent Transfer Courses
MAC2311 ------ MACX311  
MAC2312 ------ MACX312  
MAC2313 ------ MACX313
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MAP2302 ------ MAPX302
COP2210, CGS2250, COP2270 ------ COPXXXX
BSC1010, BSC1010L or BSC1011, BSC1011L ------ BSCXXXX/XXXXL OR
CHM1045, CHM1045L or CHM1046, CHM1046L ------ CHMXXXX/XXXXL OR
PHY2048, PHY2048L or PHY2049, PHY2049L ------ PHYXXXX/XXXXL

*Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor.*

GENERAL UNIVERSITY REQUIREMENTS

Transfer students are assumed to have completed an Associates of Arts Degree from a Florida Public Institution or satisfied completed 60 credits and the University Core Curriculum Requirements.

In addition, the following courses are required of incoming transfer students:

Global Learning Requirement for Transfers: Transfers entering FIU Fall 2011 or later are required to take two Global Learning Courses.
- Those who meet the University Core Curriculum Requirements prior to entering FIU
  - Two Global Learning Discipline Specific Courses (One of the two may be a Global Learning Foundation Course chosen in consultation with your advisor)
- Those who do not meet the University Core Curriculum Requirements prior to entering FIU
  - One Global Learning Foundation Course (from the University Core Curriculum)
  - One Global Learning Discipline-Specific Course

Transfer courses may not be used to meet the FIU Global Learning Requirement. For a list of Global Learning courses: http://goglobal.fiu.edu

College of Arts and Sciences: Selected Requirements

Foreign Language Requirement: Students must demonstrate competency in a foreign language or in American Sign Language at the level of the second semester of a college language sequence. You may be able to satisfy this requirement with AP, CLEP Exam, or other credit. Contact your advisor.

Grades: Students must earn a grade of “C” or higher in all courses required for the major. A grade of “C-” or lower is not acceptable in any required course.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of CAS and major requirements at http://my.fiu.edu

College of Arts and Sciences: BA in Mathematics (Mathematics Education Major) specific requirements

Admission Requirement:
1. GPA 2.5 minimum
2. Pass all four sections of the General Knowledge Test (Reading Comprehension, English Language Skills, Mathematics and Essay).
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Graduation Requirement:
1. Have an overall GPA of 2.5 or higher
2. Successfully demonstrate all the Florida Educator Accomplish Practices at the pre-professional level. This is done throughout your coursework in the College of Education.
3. Pass the FTCE General Knowledge, Professional Educator and Subject Area exams prior to graduation. Note: At FIU, the Professional Educator and Subject Area exams must be passed prior to Student Teaching.

Testing Requirement:
1. General Knowledge Exam - English Language
2. General Knowledge Exam - Reading
3. General Knowledge Exam - Essay
4. General Knowledge Exam - Math
5. Professional Education Exam (required for graduation)
6. Subject Area Exam in Mathematics Education (required for graduation)