### Undergraduate Major Map

**Catalog Year**: 2017  
**College / School**: Arts, Sciences & Education  
**Major**: Mathematics - BA  
**Track / Concentration**: Mathematics Education Major  
**Career Path**: Two Year Transfer

#### Fall Term 2017

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. If student has not passed exam prior to admission to FIU, then student will be required to take and pass all portions of the General Knowledge test prior to the end of this term. All students must pass the GK Exam by the time they reach 72 credit hours in their program of study. Please see Secondary Education Advisor - 305-348-2768.

Students should begin preparations for the Professional Education exam, which must be passed prior to completion of 90 credits.

<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 Core</td>
<td>MAD 2104</td>
<td>Discrete Mathematics</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>SMT 3100</td>
<td>Know and Learn Math and Sci</td>
<td>3</td>
<td></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>
<td>3</td>
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<td>Field Hours. Fingerprint clearance required.</td>
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<tr>
<td>Mathematics Core</td>
<td>MAD 2104</td>
<td>Discrete Mathematics</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Spring Term 2018

May use MAE4394 and TSL 4324 to satisfy the Global Learning requirement. See endnotes

Students are required to take and pass the Professional Education exam prior to end of this term.

Students should begin preparations to take the Subject Area exam by the end of next semester.

<table>
<thead>
<tr>
<th>Course Group</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Core</td>
<td>MAS 3105</td>
<td>Linear Algebra</td>
<td>3</td>
<td>C+</td>
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</tr>
<tr>
<td>Mathematics Education</td>
<td>MAE 4394</td>
<td>Perspective Math/Sci Ed</td>
<td>3</td>
<td>C+</td>
<td>Field Hours. Fingerprint clearance required.</td>
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<tr>
<td>Mathematics Education</td>
<td>SMT 4301</td>
<td>Class Interact Math and Sci</td>
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<td>Field Hours. Fingerprint clearance required.</td>
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<tr>
<td>Mathematics Required</td>
<td>MAA 3200</td>
<td>Intro To Adv Math</td>
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</tr>
<tr>
<td>Mathematics Education</td>
<td>TSL 4324</td>
<td>ESOL Content Areas</td>
<td>3</td>
<td></td>
<td>Field Hours. Fingerprint clearance required.</td>
</tr>
</tbody>
</table>
# Undergraduate Major Map

## Summer Term 2018
Apply for Student Teaching through Office of Clinical Experiences by June 1st.

Complete any pending FTCE exams this term:
1. FTCE Professional Educator Exam
2. FTCE Subject Area Exam

<table>
<thead>
<tr>
<th>Course Group</th>
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<th>Course Description</th>
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<th>Critical Indicator</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Required</td>
<td>MAS 4203</td>
<td>Number Theory</td>
<td>3</td>
<td></td>
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</tr>
</tbody>
</table>

Term GPA: 2
Term Hours: 3
Cum GPA: 2.5

## Fall Term 2018
Apply for Spring Graduation.

Minimum cumulative FIU GPA of a 2.5 and successful completion of all coursework and FTCE exams required PRIOR to placement in Student Teaching.

<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>SMT 4664</td>
<td>Prob Based Instr Math-Sci</td>
<td>3</td>
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<td>Field Hours. Fingerprint clearance required.</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>
<tr>
<td>Mathematics Required</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td>MAT3501 Numbers, Functions &amp; Modelling</td>
</tr>
<tr>
<td>Mathematics Required - Statistics</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td>STA 3163 or STA 4321</td>
</tr>
<tr>
<td>Mathematics Required</td>
<td>MAP 4104C</td>
<td>Top In Math Model</td>
<td>4</td>
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<td></td>
</tr>
</tbody>
</table>

Term GPA: 2
Term Hours: 16
Cum GPA: 2.5

## Spring Term 2019
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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<th>Credit Hours</th>
<th>Critical Indicator</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics Required</td>
<td>MAT 4510</td>
<td>Problem Solving Seminar</td>
<td>3</td>
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</tr>
<tr>
<td>Mathematics Education</td>
<td>MAE 4942</td>
<td>Student Teaching</td>
<td>9</td>
<td></td>
<td></td>
</tr>
</tbody>
</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 ------ COPXXX
BSC1010, BSC1010L or BSC1011, BSC1011L ------ BSCXXX/XXXXL OR
CHM1045, CHM1045L or CHM1046, CHM1046L ------ CHMXXX/XXXXL OR
PHY2048, PHY2048L or PHY2049, PHY2049L ------ PHYXXX/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 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 CASE and major requirements at http://my.fiu.edu

College 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).

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
Undergraduate Major Map

done throughout your coursework in the College of Arts, Sciences & 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)