

**BACHELOR OF ARTS IN MATHEMATICS
WITH A MATHEMATICS EDUCATION MAJOR**

Requirements for Admission into the Major:

1. Completion of 60 hours
2. Completion of all UCC requirements
3. Minimum 2.5 GPA
4. Students in the major must pass all four parts of the General Knowledge Test prior to admission into the degree program.

Curricular Requirements of the Degree

Total number of hours: 120

UCC courses: 38/39 hours

Common Pre-requisites:

Quantitative Reasoning:	MAC 2311	Calculus I	4
	MAC 2312	Calculus II	4
Physical Sciences:*	PHY 2048 & 2048L	Physics with Calculus I & Lab	5
	OR		
	PHY 2049 & 2049L	Physics with Calculus II & Lab	5
	OR		
	CHM 1045 & 1045L	General Chemistry I & Lab	4
	OR		
	CHM 1046 & 1046L	General Chemistry I & Lab	4
Life Sciences:*	BSC 1010 & 1010L	General Biology I & Lab	4
	OR		
	BSC 1011 & 1011L	General Biology II & Lab	4

Recommended:

Social Inquiry:	DEP 2000	Human Growth and Development	3
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Other UCC courses: 19 additional hours

* Courses suggested above satisfy both UCC and the Math/Stat department's science requirement. The BA in Mathematics requires completion of two of the following courses with accompanying labs (BSC 1010, BSC 1011, CHM 1045, CHM 1046, PHY 2048, PHY 2049)

Other Common Pre-Requisites: 10/11 hours

	MAC 2313	Multivariable Calculus	4
	MAP 2302	Differential Equations	3
	COP 2210	Introduction to Programming	4
	OR		
	COP 2250	Programming in Java	3
	OR		
	COP 2270	C for Engineers	3

Additional Lower Division Courses: 3 hours

	MAD 2104	Discrete Mathematics	3
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Mathematics Coursework: 27 hours

	MAE 3893	Mathematics Education Seminar ^f	1
	MAE 3894	Early Teaching Experience ^f	1
	MAS 3105	Linear Algebra	3
	MHF 3404	History of Mathematics	3
	MAA 3200	Introduction to Advanced Mathematics	3
	MAP 3103	Mathematics Modeling	3

MAP 3103L	Mathematics Modeling Lab	1
MAS 4203	Number Theory	3
MAT 4510	Problem Solving Seminar	3
MTG 3212	College Geometry	3
STA 3163	Statistical Methods I	3
OR		
STA 4321	Intro to Mathematical Statistics I	3

College of Education Coursework: **28 hours**

MAE 4393	Nature of Math and Science	3
MAE 4394	Perspectives on Math and Science Education ^f (GL)	3
RED 4325	Subject Area Reading ^f	3
TSL 4324	ESOL for Content Area Teachers ^f (GL)	3
MAE 3651	Learning Mathematics with Technology	3
MAE 4330	Teaching and Learning Secondary Mathematics	4
MAE 4942	Student Teaching ^f	9

^f These courses require field experience. Please speak to your advisor regarding the requirements for field experiences.

Additional Electives: The balance of the 120 credit hour requirement for graduation should be chosen in consultation with the student's departmental and/or teacher preparation advisor(s).

Other Arts and Sciences Requirements:

1. A minimum of 120 semester hours in acceptable coursework is required.
2. At least half of the upper division credits in any major must have been taken in at FIU.
3. In the last 60 semester hours of enrollment, students must earn nine semester hours of elective credits through coursework outside the major, six of which are to be taken outside the department sponsoring the program.
4. 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.
5. Of the total number of hours submitted for graduation, a minimum of 48 semester hours must be in upper division courses.
6. 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. (High school courses cannot be used to fulfill this requirement.) This requirement may be met by successfully completing with a grade of C or better (C- does not count): a) the second semester of a two-semester sequence basic language course or b) any second-year or third-year foreign language course. This requirement may also be fulfilled by presenting acceptable scores in the Advanced Placement Exam, the SAT II, the CLEP exam, or other approved instruments. Students should consult their advisors for more specific information.
7. One- and two-credit physical activity courses (with the prefixes PEL, PEM, PEN) cannot be included as part of the hours needed for graduation.

Additional Graduation Requirements:

All majors are required to meet the following requirements before they can graduate from this teacher education program:

1. Have an overall GPA of 2.5
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.