FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 1-27-2025
UFS Approval _____
Banner _____
Catalog _____

Department Curriculum and Instruction

College Education

Program Name

Bachelor of Arts Degree in Mathematics Education (6-12)

☐ **New Program***

☑ **Change Program***

Effective Date
(TERM & YEAR)

Fall 2025

Please explain the requested change(s) and offer rationale below or on an attachment.

The Department of Mathematics and Statistics has phased out MAA 4200 (Modern Analysis), one of their required courses. Students will instead take MAS 3156 (Vector Calculus) for most of their concentrations.

Mathematics Education 6-12 in the College of Education are required to take MAA 4200. Since this course will not be offered moving forward, the department would like to take the recommendation of the Department of Mathematics and Statistics and replace MAA 4200 with MAS 3156. The prerequisites for MAS 3156 are MAC 2313 and MAS 2103--which Mathematics Education 6-12 students already take.

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone

Robyn Klein/rklein@fau.edu/x73877

Consult and list departments that may be affected by the change(s) and attach documentation

Mathematics and Statistics Department--see attached documentation

Approved by	***Date***
Department Chair: Charles Dukes	11/12/2024
College Curriculum Chair:	11/15/24
College Dean:	12/3/2024
UUPC Chair: Korey Sorge	1-27-2025
Undergraduate Studies Dean: Dan Meeroff	1-27-2025
UFS President:	
Provost:	

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

SECONDARY EDUCATION PROGRAMS
BACHELOR OF ARTS DEGREE|
IN MATHEMATICS EDUCATION (6-12)

***NOTE*:** All College of Education Secondary Degree Programs are Florida Department of Education (DOE) and Council for Accreditation of Teacher Education (CAEP) approved. This State and CAEP approval represents the transferability of your teaching credentials from state-to-state. Test scores must be submitted to Office of Academic and Student Services (OASS) prior to the placement deadline.

Professional Education component courses offered through the College of Education:

EDF	**2005**	**Introduction to the Teaching Profession**	**(3 credits)**	**(*Requires 15-hour field component*)**
EDF	2085	Introduction to Diversity for Educators	(3 credits)	**(*Requires 15-hour field component*)**
EME	2040	Introduction to Technology for Educators	(3 credits)	
EDF	3210	Applied Learning Theory	(3 credits)	
EDF	3430	Ed. Measurement & Evaluation	(3 credits)	
TSL	4324	ESOL Strategies for Content Area Teachers	(3 credits)	
MAE	4360	Teaching Mid & Secondary School Math	(3 credits)	(*Requires 10-hour field component*)
RED	4335	Content Read: Mid & Sec School	(3 credits)	
ESE	**3940**	**Sec. School Effective Instruction***	**(3 credits)**	***(Requires 90-hour field component)***

***Must be programmed and taken the fall/spring semester prior to student teaching. (Offered in fall and spring terms only)**

*****Students MUST contact the Department of Mathematics for preliminary assessment BEFORE beginning this program. *****

Mathematics content courses offered through the C.E. Schmidt College of Science:
(Please see FAU catalog for possible prerequisite courses)

MAC 2311	Calculus with Analytic Geometry I	(4 credits)	MAD 2502	Intro to Computational Math	(3 credits)
MAC 2312	Calculus with Analytic Geometry II	(4 credits)	***OR***	A Programming Course	
MAD 2104	Discrete Mathematics	(3 credits)			
MAC 2313	Calculus with Analytic Geometry III	(4 credits)			
MAS 2103	Matrix Theory	(3 credits)			
MHF 3202	Intro. To Advanced Mathematics	(3 credits)			
STA 4442	Probability and Statistics I	(3 credits)			
~~MAA 4200~~	~~Modern Analysis~~ MAS 3156 Vector Calculus	(3 credits)			
MAS 4301	Modern Algebra	(3 credits)			
MTG 3212	Survey of Geometry	(3 credits)			

Plus:
***Upper Division Electives:* (12 Credits)**
Approval of advisor required: see list of preapproved courses on back. Upper division electives are not limited to only those listed.

Final Semester: (6-12 credits)

MAE 4945 Student Teaching: Mathematics ***(Full-time internship, to be completed during a fall or spring term)***
******ALL COURSEWORK AND CERTIFICATION EXAMS--FTCE: General Knowledge, Mathematics 6-12 Subject Area Exam (SAE), Professional Education Exam (PEd) MUST BE COMPLETED PRIOR TO STUDENT TEACHING******

Applications to Student Teach during the fall semester are due by January 31st
Applications to Student Teach during the spring semester are due by September 15th

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PROGRAM ADMISSION REQUIREMENTS:

- 60 semester hours completed
- 2.5 overall Grade Point Average (GPA)
- Passing scores on the General Knowledge test

Upper Division Mathematics Approved Electives:

(Please see FAU Catalog/Education Course Descriptions
for possible course prerequisites.)

Select 12 credits:

MAS MAP	3203* 3305	Introductory Number Theory Engineering Mathematics I	(3 credits) (3 credits)
MAD	3400*	Numerical Methods	(3 credits)
MAD MHF MHF STA STA	4402 3404* 3302 4102 4103	Numerical Analysis II History of Mathematics Mathematical Logic Computational Statistics I Computational Statistics II	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits)
STA STA STA MAD STA	4234* 4202L* 4702 4301* 4853	Applied Statistics I Applied Statistics I Lab Applied Statistics II Graph Theory Applied Time Series and Forecasting	(2 credits) ***and*** (1 credit) (3 credits) (3 credits) (3 credits)
MAP MAP	4303 4306	Differential Equations II Engineering Mathematics II	(3 credits) ***OR*** (3 credits)
MAA STA STA MAT CIS MAS MAD MTG MAT MAT STA	4402* 4443* 4618* 4937 4362 4107 4605 4930 4930 4906 4906	Introductory Complex Analysis Probability and Statistics II Linear Programming and Game Theory Mathematical Problem Solving Cryptography and Information Security Linear Algebra II Introduction to Coding Theory Topics in Geometry Topics in Mathematics Directed Independent Study Directed Independent Study	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) (3 credits) (3 credits) (1-4 credits) (1-4 credits) (1-4 credits) (1-4 credits)

(*Recommended courses)