

Mathematics Education (BS)

First awarded in 2023

Mr. J. Barlar and Dr. Stafford, *Program Coordinators*

The Mathematics Education degree program is accredited by the Florida Department of Education. Graduates of this program are eligible to apply for 6-12 Mathematics teacher certification to the Florida Department of Education.

This program is highly structured; therefore, students should carefully follow the scheduling of the four-year recommended plan to avoid extending the time required for degree completion. Any alternative coursework must be approved by a Program Coordinator. All alternative coursework must closely align with Florida College course requirements to be considered for approval.

Total Semester Hours

Candidates must complete a minimum of 120 semester hours of accredited academic college work.

General Education Requirements

All students must complete the 36-hour general education core, and two (2) hours of physical education classes as a graduation requirement. Individual degree paths may have additional requirements in the general education core. See the Mathematics Education degree path below for the specific requirements of that degree path.

Residency

Students must complete all upper division methods courses at Florida College, to receive the Bachelor of Science degree in Mathematics Education. Students may petition the department chair for exceptions in extraordinary cases.

Admittance Requirements

All of the following requirements must be met/submitted prior to admittance to the Education Program, Students must be admitted to the Education program before taking methods courses or internships.

- 2.50 GPA or higher
- Application to the Education Program
- Philosophy of Education
- Personal Reference
- Educational Reference
- Transcripts of any other college work
- Proof that student has taken the Florida Teacher Certification Exam (FTCE) General Knowledge Test (GKT)

Graduation Requirements

- 2.50 GPA or higher
- A grade of "C" or better for required courses (with the exception of daily Bible courses)
- Passing score on the General Knowledge Florida Teacher Certification Exam
- Passing score on the Professional Educator Florida Teacher Certification Exam
- Passing Score on the Mathematics Education (6-12) Subject Area Florida Teacher Certification Exam
- Successful completion of two levels of internship
- Successful completion of all Portfolio Projects and Critical Exams

Commencement

Candidates must participate in graduation exercises in the year of completing their other requirements. Any exception must be cleared through the Provost.

Degree Program Course Requirements

Complete all Florida College General Education course requirements including:

ENC 1101	English Composition Skills I (3)
ENC 1102	English Composition Skills II (3)
Humanities* (6 hours)	Recommended: LIT 2371 OT Poetry and Wisdom Literature
MAC 2311	Calculus I** (4)
MAC 2312	Calculus II (4)
Natural Science	Natural Science with one lab hour (7)
Physical Education Hours (2)	
PSY 1012	General Psychology (3)
Soc /Beh Sci (6 hours)	Includes 6 hours social science OR 3 hours of social science and 3 hours of additional behavioral science
SPC 1608	Public Speaking (3)

* For education majors only the LAE 3414 History of Children's and Adolescent Literature course may apply as 3 hours of Humanities credit toward General Education requirements.

** Students entering college needing prerequisite courses for Calculus I due to placement based on ACT/SAT scores may take the following sequence of courses to prepare to enter Calculus I: Either MAC 1105 College Algebra (3) & MAC 1114 Precalculus Trigonometry (3) **OR** MAC 1140 Precalculus Algebra & Trigonometry (4). Any of these courses will meet the general education core for mathematics. However, it will require the students to take more hours in mathematics over the course of the program.

Lower-Division Education Courses (9 credit hours)

EDF2005	Introduction to Education (3 hours)
EDF2085	Teaching Diverse Populations (3 hours)
EME 2040	Educational Technology (3 hours)

Upper-Division Education Courses (34 credit hours)

EDE 4201	Curriculum and Instruction (3 hours)
EDE 4940	Teaching Internship (11 hours)
EDE 4942	Pre-Intern Field Experience II (2 hours)
EDF 3122	Learning & the Developing Child (3 hours)
EDF 3251	Classroom Management (3 hours)
EDF 3430	Testing and Measurement in Education (3 hours)
EEX 3050	Survey of Special Education (3 hours)
RED 3353	Intermediate Literacy 3-6: Comprehension and Content Area Reading (3 hours)
TSL 3080	Introduction to TESOL (3 hours)

Discipline-Specific Requirements for Mathematics Education (21-22 credit hours)

MAE 4311	Methods of Teaching Elementary Math II (3 hours)
MAE 4332	Methods of Teaching Secondary Math (3 hours)

Additional 15-16 hours of courses chosen from the list below:

MAC 2313	Calculus III (4)
MAP 2302	Differential Equations (3)
MAS 3105	Linear Algebra (3)
MAS 4311	Elementary Abstract Algebra (3)
MGF 3301	Bridge to Abstract Mathematics (3)
STA 2023	Elementary Statistics (3)
STA 3024	Statistics II (3)

As an integral part of coursework, the Department requires all Mathematics Education majors to complete a series of Portfolio Projects and Critical Exams to demonstrate mastery of all state standards. Successful completion of these tasks and exams is required for graduation and state certification eligibility.

RECOMMENDED PLAN FOR BS DEGREE IN MATHEMATICS EDUCATION (125 HOURS shown)

Fall – Year One		Hours	Spring – Year One		Hours
ENC 1101 Freshman Composition I		3	ENC 1102 Freshman Composition II		3
MAC 2311 Calculus I		4	MAC 2312 Calculus II		4
SPC 1608 Public Speaking		3	Social Science/Behavioral Science		3
REL 1210 History & Geography of OT		2	REL 1240 History & Geography: NT		2
TR Daily Bible		1	TR Daily Bible		1
EDF 2005 Introduction to Education		3	EDF 2085 Teaching Diverse Pops		3
Total		16	Total		16
Summer – Year One					
LAE 3414 – Child and Adolescent Lit					3
Total					3
Fall – Year Two		Hours	Spring – Year Two		Hours
MAC 2313 Calculus III		4	LIT 2371 OT Poetry & Wisdom		3
Physical Education		1	Social Science/Behavioral Science		3
PSY 1012 General Psychology		3	TR Daily Bible		1
MWF Daily Bible		2	EDF 3122 Learning & Developing Child		3
TR Daily Bible		1	Math Discipline-Specific Course		3
EME 2040 Educational Technology		3	Math Discipline-Specific Course		3
Total		14	Total		16
Apply for admission to Education Program					
Fall – Year Three		Hours	Spring – Year Three		Hours
Natural Science w/Lab		3-4	Physical Education		1
MWF Daily Bible		1	MWF Daily Bible		1
TR Daily Bible		1	TR Daily Bible		1
EDE 4201 Curriculum and Instruction		3	EDF 3251 Classroom Management		3
EEX 3050 Survey of Special Education		3	MAE 4311 – Methods: Elem Math II		3
Math Discipline-Specific Course		3	Math Discipline-Specific Course		3
			TSL 3080 – Intro to TESOL		3
Total		14-15	Total		15
Summer – Year Three					Hours
RED 3353 – Intermediate Literacy					3
Total					3
Fall – Year Four		Hours	Spring – Year Four		Hours
Natural Science w/Lab		3-4	Senior Bible Seminar		1
MWF Daily Bible		1	EDE 4940 Final Teaching Internship		11
EDF 3430 Testing and Measurement		3	Math Discipline-Specific Course		3
EDE 4942 Pre-Internship Field Exp. II		2			
MAE 4332 – Methods: Secondary Math		3			
Math Discipline-Specific Course		3			
Total		15-16	Total		15

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