Mathematics Education (BS)

Mrs. Roberts and Mrs. Hastings, *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. The four-year degree plan for Mathematics Education requires 123 hours.

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.-

Lower-Division General Education Course Requirements for Elementary Education

ENC 1101	English Composition Skills I (3)
ENC 1102	English Composition Skills II (3)
Humanities*	Humanities Hours (6) (LIT 2371 OT Poetry & Wisdom (3) also counts toward Daily Bible Requirement)
MAC 2311	Calculus I** (4)
MAC 2312	Calculus II (4)
Natural Science	Natural Science with one lab hour (7)
PSY 1012	General Psychology (3)
Social Science	Social Science hours (6)
SPC 1608	Public Speaking (3)
Daily Bible course for each semester	
Physical Education	Physical Education Hours (2)

Students entering college needing prerequisite course 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)
EDF2085	Teaching Diverse Populations (3)
EME 2040	Educational Technology (3)

Upper-Division Education Courses (34 credit hours)

EDE 4201	Curriculum and Instruction (3)
EDE 4940	Teaching Internship (11)
EDE 4942	Pre-Intern Field Experience II (2)
EDF 3122	Learning & the Developing Child (3)
EDF 3251	Classroom Management (3)
EDF 3430	Testing and Measurement in Education (3)

EEX 3050   Survey of Special Education (3)
MAE 4311   Methods of Teaching Mathematics in the Elementary School II (3)
MAE 4332   Secondary Math Methods (3)
RED 3310   Methods of Teaching Reading (3)
TSL 3080   Introduction to TESOL (3)

Discipline-Specific Requirements for Mathematics Education (15-16 credit hours)
MAC 2313 Calculus III (4)
MGF 3301 Bridge to Abstract Mathematics (3)
MAP 2302 Differential Equations (3)
MAS 3105 Linear Algebra (3)
MAS 4311 Elementary Abstract Algebra (3)
STA 3024 Statistics II (3)
MAC 2313 Calculus III (4)
MAP 2302 Differential Equations (3)
MAS 3105 Linear 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 Critical Tasks 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. For details, see the Education Student Handbook.

Admittance Requirements (All of the following requirements must be met prior to admittance, typically before the Fall semester of the Junior year)
- 2.50 GPA or higher
- Application Form
- 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 Professional Educator Florida Teacher Certification Exam
- Passing Score on all sections of the Mathematics Education (6-12) Subject Area Florida Teacher Certification Exam
- Successful completion of three levels of internship and all TESOL requirements
- Successful completion of all Critical Tasks and Critical Exams

Daily Bible Requirement
Students are required by college policy to attend daily Bible classes with the exception of the final internship semester. During the internship, students complete a one credit weekly Bible seminar.

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.

Commencement

Candidates for the Bachelor of Science degree in Elementary Education must participate in Commencement in the year of completing their other requirements. Any exceptions must be cleared with the Registrar.

RECOMMENDED PLAN FOR BS DEGREE IN MATHEMATICS EDUCATION (123 hours)

Fall – Year One	Hours	Spring – Year One	Hours
REL 1210 History & Geography of OT	2	REL 1240 History & Geography: NT	2
REL 1273 Biblical Worldview	1	Bible (T/R)	1
ENC 1101 Freshman Composition I	3	ENC 1102 Freshman Composition II	3
EDF 2005 Introduction to Education	3	EDF 2085 Teaching Diverse Pops	3
SPC 1608 Public Speaking	3	Social Science	3
MAC 2311 Calculus I**	4	MAC 2312 Calculus II	4
Total	**16**	**Total**	**16**
Summer – Year One			
Humanities (LAE 3314 Children and Adolescent available online)			3
Total			**3**
Fall – Year Two	Hours	Spring – Year Two	Hours
Bible (MWF)	2	Bible (T/R)	1
Bible (T/R)	1	LIT 2371 OT Poetry & Wisdom	3
Physical Education (Requires two courses)	2	PSY 1012 General Psychology	3
Social Science	3	EDF 3122 Learning & Developing Child	3
EME 2040 Educational Technology	3	Math Discipline-Specific Courses	6
MAC 2313 Calculus III	4		
Total	**15**	**Total**	**16**
Apply for admission to Education Department			
Fall – Year Three	Hours	Spring – Year Three	Hours
Bible (MWF)	1	Bible (MWF)	1
Bible (T/R)	1	Bible (T/R)	1
EDE 4201 Curriculum and Instruction	3	RED 3310 Methods of Teaching Reading	3
TSL 3080 Introduction to TSOL	3	Natural Science with Lab	4
Natural Science	3	EDF 3251 Classroom Management	3
Math Discipline-Specific Course	3	Math Discipline-Specific Course	3
Total	**14**	**Total**	**15**
Fall – Year Four	Hours	Spring – Year Four	Hours
Bible (MWF)	1	Senior Bible Seminar	1
Bible (T/R)	1	EDE 4940 Final Teaching Internship	11
EDF 3430 Testing and Measurement	3	Math Discipline-Specific Course	3
EEX 3050 Survey of Special Education	3		
Math Discipline-Specific Course	3		
EDE 4942 Pre-Internship Field Exp II	2		
Total	**13**	**Total**	**15**

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