

Bachelor of Science

Secondary Education Mathematics

The Bachelor of Science (BS) in Secondary Education Mathematics program is designed to prepare individuals to teach mathematics grades 6-12 (middle and high school). The program provides an educational pathway for students who have earned an Associate in Arts degree to include specific math and education prerequisites. Upon graduation, students will meet the mandated state teaching requirements, including teacher certification exams.

Program Highlights: The BS in Secondary Education program includes courses in teaching students with English as a second language, students with exceptionalities, reading competency, classroom management, assessment and integrated approaches to teaching methodologies at the middle and high school levels. Field experience requirements are progressive in nature, building upon previous semester experiences. Students will observe teachers in the field, teach lessons through the practicum courses, and complete a full-time teaching internship in their final semester. Courses are offered for full and part time students, with blended technology components where applicable. Students will complete three upper division (9 credit hours) of mathematics coursework through Florida Gulf Coast University.

General Education Requirements:

	Credit Hours
ENC 1101	3
ENC 1102	3
SPC 1600 or SPC 2023.....	3
Humanities Electives	6
to include 3 credits writing intensive	
*Social Science Electives	9
to include one WOH or EUH course	
**College Level Mathematics Electives.....	6
Natural Science Electives w/Lab.....	6
TOTAL.....	36

***courses can be used to satisfy general education requirements in social sciences (in addition to specific WHO or EUH requirement)**

****courses can be used to satisfy general education requirements in mathematics**

Degree Requirements (60 credit hours):

	Credit Hours
MAC 2313 Calculus with Analytic Geometry III	4
MHF 2191 Mathematical Foundations (FGCU course)	3
MAS 3105 Linear Algebra(FGCU course)	3
MAS 4301 Intro Abstract Algebra (FGCU course)	3
MTG 3212 Geometry	3
EDF 3214 Human Development and Learning.....	3
EDG 3410 Classroom Management.....	3
TSL 4142 ESOL Methods, Curriculum & Assessment	3
RED 4335 Teaching Reading in the Content Areas	3
RED 4350 Literacy Content and Processes	3
MAE 4330C Teaching Methods in High School Mathematics with practicum	4
MAE 3320C Teaching Methods in Middle School Mathematics with practicum	4
EEX 3012 Educational Needs of Students with Exceptionalities	3
ESE 4323 Educational Assessment.....	3
MAE 4930 Special Topics in Secondary Education I.....	1
EDF 4790 Ethics and Law	2
MAE 4940 Internship in Secondary Education with Mathematics Emphasis	12
TOTAL CREDIT HOURS	120

Required Program Prerequisites (grades of C or better) and electives for the Associate in Arts Degree (minimum of 24 credit hours):

- *EDF 2005 Intro to Education
- *EDG 2701 Teaching Diverse Populations
- *EME 2040 Educational Technology
- *PSY 2012 General Psychology
- **STA 2023 Statistics
- **MAC 2311 Calculus with Analytical Geometry I
- **MAC 2312 Calculus with Analytical Geometry II
- **college level math electives (6 credit hours)
- **COP 1000 Intro to Computers and Programming (or another computer programming language course)

School Based Hour Requirements (675 total hours)

- EDG 3410 Classroom Management (15)
- TSL 4142 ESOL Methods, Curriculum & Assessment (15)
- MAE 4330C Special Methods in Teaching High School Mathematics with Practicum (40)
- MAE 3320C Special Methods in Teaching Middle School Mathematics with Practicum (30)
- EEX 3012 Educational Needs of Students with Exceptionalities (15)
- MAE 4940 Internship in Secondary Education with Mathematics Emphasis (560)

