

Northwest Florida State College

Bachelor of Science in Middle Grades Mathematics Teacher Education

LOWER DIVISION (ASSOCIATE DEGREE) COURSES

The first sixty credits in the following program of study are designed to prepare students not only for the AA degree, but also for the General Knowledge exam and Middle Grades Math Subject Area exam of the Florida Teacher Certification Exam (FTCE).

If you plan to be a middle grades mathematics teacher and are just beginning your AA degree, this program of study will best prepare you for that career choice. If you have already completed your AA degree and some of your general education courses differ from those listed below, your AA degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Middle Grades Mathematics Subject Area exam. A passing score on the FTCE Middle Grades Mathematics Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.

Courses with the “C” designation include an extra number of “lab” hours to accommodate field experiences.

Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandates. Candidates should request the most current requirements from the Teacher Education Program Director.

Middle Grades Mathematics Education

General Education Course Requirements		Credit Hours
ENC 1101	English Composition I	3
ENC 1102	English Composition II	3
_____	General Education Mathematics: MAC 1105 College Algebra	3
_____	General Education Mathematics: MAC 1140 Pre-Calculus Algebra	3
_____	General Education Humanities	6
_____	General Education Gordon Rule Social Science	3
_____	General Education Social Science	3
_____	General Education Biological Science ¹	4
_____	General Education Physical Science ¹	4
_____	General Education Science ¹	4
Total General Education Credits		36

¹ At least one physical or biological science must include a lab.

Common Pre-requisites		Credit Hours
EDF 1005	Introduction to the Teaching Profession	3
EDF 2085	Introduction to Diversity for Educators	3
EME 2040	Introduction to Technology for Educators	3
MAC 2311	Calculus I	4
MAC XXX (4 credits)	(includes MAC 1105 and MAC1140)	
Total Common Pre-requisites Credits		13

Lower Division Math Electives (Select at least 3 credit hours from the following)

MAC1114	Trigonometry (pre-requisite for MAC 2311)	3
MAC1147	Pre-Calc Algebra & Trigonometry	5
MAC1154	Analytic Geometry	3
MAC2233	Calculus for Business	3
Total Lower Division Math Elective Credits		3

Lower Division Electives	Credit Hours
Students must select at least 8 hours of electives	8

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TOTAL LOWER DIVISION (ASSOCIATE DEGREE) REQUIREMENTS ² 60

² Students who do not meet the foreign language requirement at the high school level will need to complete eight (8) credits of the same foreign language at the college level.

UPPER DIVISION COURSES

Core Professional Education Courses		Credit Hours
EDF 3214	Human Development and Learning	3
EDF 3430	Measurement, Evaluation & Assessment in Education	3
EEX 3070	Methods of Inclusion & Collaboration	3
EDG 3410C	Classroom Management, School Safety, Law & Ethics	3
EDG 3343	Instructional Strategies	3
EME 3410C	Integrating Technology in the Classroom	3
TSL 3081C	TESOL Issues and Practice	3
RED 3335C	Teaching Reading in the Content Areas	3
RED 3324C	Teaching in the Middle School Curriculum	3
Total Core Professional Education Credits		27

Additional Courses Required		Credit Hours
MAE 4312C	How Children Learn Math	3
MAE 3350C	Principles and Methods for Teaching Mathematics K-8	3
MAE 4940C	Teaching Methods in Middle Grades Math Field Experience	1
MTG 2206	College Geometry	3
MAC 2312	Calculus II or another department approved Math elective	4
MHF 4404	The History of Math	3
MAD 3107	Applied Discrete Mathematics	3
STA 2023	Statistics or another approved Statistics course	3
Total Additional Required Credits		23

INTERNSHIP (Student Teaching)		Credit Hours
MAE 4945	Student Teaching Internship	9
MAE 4930C	Seminar in Math Education	1
Total Student Teaching Credits		10

TOTAL UPPER DIVISION CREDITS	60
TOTAL CREDITS FOR THE DEGREE	120