

# 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 Florida Teacher Certification Exam (FTCE) General Knowledge, Middle Grades Mathematics Subject Area, and Professional Education subtests.

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 Middle Grades Mathematics Subject Area FTCE test. Passing scores on the FTCE General Knowledge exam, Middle Grades Mathematics Subject Area exam, and Professional Education exam are graduation requirements for this degree.

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 Department Chair.

Please note that some courses below may require lower division prerequisites not specified as program requirements.

### 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	6
_____	General Education Humanities	6
_____	General Education Social Science/History/Government	3
PSY 2012	Psychology	3
GLY 2010C	Physical Geology <sup>1,2</sup>	4
_____	General Education Biological Science <sup>1</sup>	4
_____	General Education Science <sup>1</sup>	4
<b>Total General Education Credits</b>		<b>36</b>

<sup>1</sup> At least one physical or biological science must include a lab.

<sup>2</sup> Other general education natural science courses may meet program requirements; see your advisor.

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
<b>Total Common Pre-requisites Credits</b>		<b>17</b>

### Lower Division Electives (Select at least 7 credit hours from the following)

MAC1105	College Algebra	3
MAC1140	Pre-Calculus Algebra	3
MAC1114	Trigonometry	3
MAC1147	Pre-Calc Algebra & Trigonometry	5
MAC1154	Analytic Geometry	3
MAC2233	Calculus for Business	3
<b>Total Lower Division Elective Credits</b>		<b>7</b>

### **TOTAL LOWER DIVISION (ASSOCIATE DEGREE) REQUIREMENTS<sup>3</sup> 60**

<sup>3</sup> 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.

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## UPPER DIVISION COURSES

<b>Core Professional Education Courses</b>		<b>Credit Hours</b>
EDF 3131	Learning and the Developing Adolescent	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
<b>Total Core Professional Education Credits</b>		<b>27</b>

<b>Additional Courses Required</b>		<b>Credit Hours</b>
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
Or		
MHF 3202	Set Theory and Logic	3
STA 2023	Statistics or another approved Statistics course	3
<b>Total Additional Required Credits</b>		<b>23</b>

<b>INTERNSHIP (Student Teaching)</b>		<b>Credit Hours</b>
EDG 4940	Student Teaching Internship	9
MAE 4930C	Seminar in Math Education	1
<b>Total Student Teaching Credits</b>		<b>10</b>

<b>TOTAL UPPER DIVISION CREDITS</b>	<b>60</b>
<b>TOTAL CREDITS FOR THE DEGREE</b>	<b>120</b>