

# Northwest Florida State College

## Bachelor of Science in Middle Grades Math 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 test and middle grades math subject area test in the Florida Teacher Certification Exam (FTCE).

If you plan to be a middle grades math 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 math subject area FTCE test. A passing score on the FTCE Middle Grades Math subject area test is one of the graduation requirements for this degree. Please note that some courses below may require lower division prerequisites not specified as program requirements.

Courses with the “C” or “L” 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.

<b>General Education Course Requirements</b>		<b>Credit Hours</b>
ENC 1101	English Composition I	3
ENC 1102	English Composition II	3
MAC 1105	College Algebra	3
MAC 1114	Trigonometry	3
_____	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.

<b>Common Pre-requisites</b>		<b>Credit Hours</b>
EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
MAC 2311	Calculus I	4
_____	General Education Biological Science <sup>3</sup>	4
_____	Computer Programming Language (applicable to microcomputers)	3
_____	Elective in Math or Physical Science	4
<b>Total Common Pre-requisites Credits</b>		<b>24</b>

<sup>3</sup> Some students may have satisfied this requirement in their General Education courses, in which case another approved college credit course may be substituted here.

### **TOTAL LOWER DIVISION (ASSOCIATE DEGREE) REQUIREMENTS<sup>4</sup> 60**

<sup>4</sup> Students who do not meet the foreign language requirement at the high school level will need to complete eight (8) credits of foreign language.

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## UPPER DIVISION COURSES

<b>Core Professional Education Courses</b>		<b>Credit Hours</b>
EDF 3131C	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 4081C	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 4320C	Teaching Methods in Middle Grades Math	3
MAE 4940C	Teaching Methods in Middle Grades Math Field Experience	1
MTG 2206	College Geometry	3
MAC 2312	Calculus II or another approved Math elective	4
MHF 4404	The History of Math	3
MAD 3104	Discrete Mathematics	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>
MAE 4945	Internship: Middle Grades Math Education	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>