

# Northwest Florida State College

## Bachelor of Science in Middle Grades Science 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 Science Subject Area, and Professional Education Subtests.

If you plan to be a middle grades science 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 Science Subject Area FTCE test. Passing scores on the FTCE General Knowledge exam, Middle Grades Science 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 Science Education

General Education Course Requirements		Credit Hours
ENC 1101	English Composition I	3
ENC 1102	English Composition II	3
MAC 1105	College Algebra	3
MAC 1140	Pre-calculus Algebra	3
_____	General Education Humanities	6
_____	General Education Social Science/History/Government	3
PSY 2012	Psychology	3
GLY 2010C	Physical Geology <sup>1</sup>	4
BSC 1010C	Principles of Biology I <sup>2</sup>	4
CHM 1025	Chemical Science OR PHY 1020 Physical Science	4
<b>Total General Education Credits</b>		<b>36</b>

<sup>1</sup> Other general education natural science courses may meet program requirements; see your advisor.

<sup>2</sup> All students must take a two-course science sequence with a lab. If you substitute CHM 1045C or PHY 1053C for BSC 1010C in your General Education, then you must substitute CHM 1046C or PHY 1054C for BSC 1011C in the Common Prerequisites. However; be advised that, NWFSC General Education requirements stipulate that a student’s General Education courses include a biological science.

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
GLY XXXXC <sup>3</sup>		4
BSC1011C	Principles of Biology II <sup>2</sup>	4
OCE XXXX <sup>3</sup>		3
<b>Total Common Pre-requisites Credits</b>		<b>20</b>

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<sup>2</sup> All students must take a two-course science sequence with a lab. If you substitute CHM 1045C or PHY 1053C for BSC 1010C in your General Education, then you must substitute CHM 1046C or PHY 1054C for BSC 1011C in the Common Prerequisites. However; be advised that, NWFSC General Education requirements stipulate that a student's General Education courses include a biological science.

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

<b>Lower Division Elective</b>	<b>Credit Hours</b>
Physical Science Elective	4

<b>Total Lower Division Elective Credits</b>	<b>4</b>
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<b>TOTAL LOWER DIVISION (ASSOCIATE DEGREE) REQUIREMENTS<sup>4</sup></b>	<b>60</b>
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<sup>4</sup> Students who do not have 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

<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>
SCE 3350C	Principles and Methods for Teaching Science K-8	3
SCE 4940C	Teaching Methods in Middle Grades Science Field Experience	1
ISC 4145	Environmental Systems	3
CHM 1025	Chemical Science	
	OR	
PHY 1020	Physical Science	4
	Three department approved science electives	12
<b>Total Additional Courses Required Credits</b>		<b>23</b>

<b>Internship (Student Teaching)</b>		<b>Credit Hours</b>
EDG 4940	Student Teaching Internship	9
SCE 4930C	Seminar in Science 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>