

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 General Knowledge exam and the Middle Grades General Science Subject Area exam of the Florida Teacher Certification Exam (FTCE).

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 FTCE Middle Grades General Science Subject Area exam. A passing score on the FTCE Middle Grades General Science 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 requirements 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 Science 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 Gordon Rule Social Science	3
_____	General Education Social Science	3
BSC 1010C	Principles of Biology I ¹	4
CHM 1025	Chemical Science OR PHY 1020 Physical Science	4
_____	General Education Science	4
Total General Education Credits		36

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		4
BSC1011C ¹	Principles of Biology II ²	4
OCE XXXX		3
Total Common Pre-requisites Credits		20

¹ All students must take a two-course science sequence with a lab. Students who substitute CHM 1045C or PHY 1053C for BSC 1010C in their General Education coursework, must substitute CHM 1046C or PHY 1054C for BSC 1011C in the state-mandated prerequisites. Remember that NWFSC General Education requirements include a biological science; this college requirement cannot be waived for students completing their A. A. degree at NWFSC.

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Note: BSC 1011C serves as a prerequisite for ISC 4145, which is required in the B. S. Middle Grades General Science Teacher Education program. Therefore, the most efficient lower-division course selection includes BSC 1010C to meet the General Education biological science requirement, followed by BSC 1011C. This course sequence meets the General Education requirements, state-mandated prerequisite requirements, and one prerequisite for a course in upper division.

Lower Division Elective	Credit Hours
Physical Science Elective	4

Total Lower Division Elective Credits	4
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TOTAL LOWER DIVISION (ASSOCIATE DEGREE) REQUIREMENTS²	60
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² Students who have not met the foreign language requirement at the high school level must complete eight (8) college credits of foreign language.

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
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
EVR 3949 Extended Internship, Environmental Science	4
_____ Two department approved science electives	8
Total Additional Courses Required Credits	23

Internship (Student Teaching)	Credit Hours
SCE 4945 Student Teaching Internship	9
SCE 4930C Seminar in Science Education	1
Total Student Teaching Credits	10

TOTAL UPPER DIVISION CREDITS	60
TOTAL CREDITS FOR THE DEGREE	120