

# Bachelor of Science

## Secondary Education Biology

The Bachelor of Science (BS) in Secondary Education Biology program is designed to prepare individuals to teach biology grades 6-12 (middle and high school). The program provides an educational pathway for students who have earned an Associate in Arts degree to include specific science and education prerequisites. Upon graduation, students will meet the mandated state teaching requirements, including teacher certification exams.

Program Highlights: The BS in Secondary Education program includes courses in teaching students with English as a second language, students with exceptionalities, reading competency, classroom management, assessment and integrated approaches to teaching methodologies at the middle and high school levels. Field experience requirements are progressive in nature, building upon previous semester experiences. Students will observe teachers in the field, teach lessons through the practicum courses, and complete a full-time teaching internship in their final semester. Courses are offered for full and part time students, with blended technology components where applicable. Students will complete three upper division (9 credit hours) of science coursework through Florida Gulf Coast University.

### General Education Requirements:

	Credit Hours
ENC 1101 .....	3
ENC 1102 .....	3
SPC 1600 or SPC 2023.....	3
Humanities Electives .....	6
to include 3 credits writing intensive	
*Social Science Electives .....	9
to include one WOH or EUH course	
College Level Mathematics Electives.....	6
**Natural Science Electives w/Lab.....	6
<b>TOTAL.....</b>	<b>36</b>

**\*courses can be used to satisfy general education requirements in social sciences (in addition to specific WHO or EUH requirement)**

**\*\*courses can be used to satisfy general education requirements in natural sciences**

### Degree Requirements (61 credit hours):

	Credit Hours
MCB 2010C Microbiology .....	5
PCB 3023C Cell and Molecular Biology .....	3
PCB 3063C Genetics with Lab (FGCU course) .....	3
PCB 3043C General Ecology with Lab (FGCU course) .....	3
ISC 3120 Scientific Process (FGCU course).....	3
EDF 3214 Human Development and Learning.....	3
EDG 3410 Classroom Management .....	3
TSL 4142 ESOL Methods, Curriculum & Assessment .....	3
RED 4335 Teaching Reading in the Content Areas .....	3
RED 4350 Literacy Content and Processes .....	3
SCE 4330C Special Methods in Teaching High School Science with practicum .....	4
SCE 3320C Special Methods in Teaching Middle School Science with practicum.....	4
EEX 3012 Educational Needs of Students with Exceptionalities .....	3
ESE 4323 Educational Assessment.....	3
EDE 4930 Special Topics in Secondary Education I.....	1
EDF 4790 Ethics and Law .....	2
SCE 4940 Internship in Secondary Education with Biology Emphasis .....	12
<b>TOTAL CREDIT HOURS</b>	<b>120</b>

### Required Program Prerequisites (grades of C or better) and electives for the Associate in Arts Degree (minimum of 23 credit hours):

- \*EDF 2005 Intro to Education
- \*EDG 2701 Teaching Diverse Populations
- \*EME 2040 Educational Technology
- \*PSY 2012 General Psychology
- \*\*BSC 1010 and 1010L Biological Science I and lab
- \*\*BSC 1011 and 1011L Biological Science II and lab
- \*\*BSC 1093C Anatomy and Physiology I and lab
- Natural science elective course (3 credit hours)
- Two of the following courses (or 8 hours of physics with lab):*
- \*\*CHM 2025 and 2025L Introductory Chemistry and lab
- \*\*CHM 2045 and 2045L General Chemistry I and lab
- \*\*CHM 2046 and 2046L General Chemistry II and lab

### School Based Hour Requirements (675 total hours)

- EDG 3410 Classroom Management (15)
- TSL 4142 ESOL Methods, Curriculum & Assessment (15)
- SCE 4330C Special Methods in Teaching High School Science with Practicum (40)
- SCE 3320C Special Methods in Teaching Middle School Science with Practicum (30)
- EEX 3012 Educational Needs of Students with Exceptionalities (15)
- SCE 4940 Internship in Secondary Education with Biology Emphasis (560)

