

# Secondary Education

## BSED Secondary Education - Biology

This is a guide based on the 2023-24 Academic Catalog and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and winter/summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress. We recommend taking a minimum of 15 credits each fall and spring semester.

### Sample 4-Year Plan

#### First Year

Fall Courses	Credits	Spring Courses	Credits
FYS100 First Year Seminar (Foundations)	3	SPE110 Intro to Indiv w/ Exceptionalities (Citizenship)	3
MSED110 Intro to Middle & Secondary Education	3	EDTC200 Technology for Teaching & Learning (Technologies)	3
BIOL110 Principles of Biology 1 (Natural World)	4	BIOL111 Principles of Biology 2	4
MATH118 College Algebra, MATH140 Precalculus, MATH150 Essen Calculus or MATH160 Calculus 1	3	STAT141 Intro to Statistics (Quantitative)	3
WRIT103 Composition (Writing)	3	EGGS105 Environmental Issues and Choices (Global Perspectives)	3
Semester Total	16	Semester Total	16

#### Second Year

Fall Courses	Credits	Spring Courses	Credits
ELL320 Cultural Awareness and Sensitivity GE (Diversity)	3	EDUC222 Principles & Structures in PK12 Education	3
SPEC220 Data Driven Interventions for Indiv w/ Exceptionalities	3	Gen Ed (Oral Communication)	3
BIOL211 Cell Biology	4	BIOL301 Ecology	4
CHEM121 General Chemistry 1 (Natural World)	4	CHEM122 General Chemistry 2	4
ENGLxxx Gen Ed (Literature)	3		
Semester Total	17	Semester Total	14

#### Third Year

Fall Courses	Credits	Spring Courses	Credits
SPEC330 Methods of Instruction for Indiv w/ Exceptionalities	3	EDUC358 Assessment & Differentiation for Inclusive Classrooms	3
EDUC334 Connecting Research and Classroom Practice	3	BIOL Elective	4
EDUC346 Teaching in Diverse Contexts	3	Gen Ed (History)	3
BIOL209 Genetics	3	Gen Ed (Citizenship and Responsibility)	3
Gen Ed (Creativity & Expression)	3	PHYS208 or PHYS211	4
Semester Total	15	Semester Total	17

#### Fourth Year

Fall Courses	Credits	Spring Courses	Credits
MSED453 Teaching Science in Secondary Schools	3	MSED491 Student Teaching 1	6
EDUC474 Classroom Management and Effective Discipline	3	MSED492 Student Teaching 2	6
BIOL Elective	4		
Gen Ed (Interconnections)	3		
Semester Total	13	Semester Total	12

# Secondary Ed - Biology

## Curriculum Checklist

### Required Education Courses (36 credits)

- \_\_\_ EDUC222 Principles & Structures of PK12 Education
- \_\_\_ EDUC334 Connecting Research and Classroom Practice
- \_\_\_ EDUC358 Assessment and Differentiation for Inclusive Classroom
- \_\_\_ EDUC474 Classroom Management and Effective Discipline
- \_\_\_ MSED110 Intro to Middle and Secondary Education
- \_\_\_ MSED453 Teaching Science in Secondary Schools
- \_\_\_ MSED491 Student Teaching 1
- \_\_\_ MSED492 Student Teaching 2
- \_\_\_ SPEC220 Data Driven Interventions for Indiv with Exceptionalities
- \_\_\_ SPEC330 Methods of Instruction for Indiv with Exceptionalities

### Required Content Area Courses (26 credits)

- \_\_\_ BIOL111 Principles of Biology 2
- \_\_\_ BIOL209 Genetics
- \_\_\_ BIOL211 Cell Biology
- \_\_\_ BIOL301 Ecology
- \_\_\_ CHEM122 General Chemistry 2
- \_\_\_ PHYS208 Introductory Physics or  
PHYS211 General Physics 1
- \_\_\_ MATH118 College Algebra or  
MATH140 Precalculus or  
MATH150 Essentials of Calculus or  
MATH160 Calculus 1

### Electives (8-11 credits)

- \_\_\_ BIOL Elective

### Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

## General Education Requirements

### (45 credits)

*Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below*

- Foundations (15 credits)
  - FYS100 First Year Seminar
  - STAT141 Intro to Statistics (Quantitative)
  - WRIT103 Composition (Writing)
  - History
  - Oral Communication
- Interconnections (9 credits)
  - EDUC346 Teaching in Diverse Contexts (Diversity)
  - ELL320 Cultural Awareness and Sensitivity (Diversity)
  - EGG5105 Environmental Issues and Choices (Global Perspectives)
- Citizenship & Responsibility (6 credits from at least two goals)
  - SPEC110 Intro to Individuals with Exceptionalities (Citizenship)
  - Critical Reasoning
- Natural World & Technologies (9 credits)
  - EDTC200 Technology for Teaching & Learning (Technology)
  - BIOL110 Principles of Biology 1 (Natural World)
  - CHEM121 General Chemistry 1 (Natural World)
- Creativity & Expression (6 credits)
  - Literature
  - Arts or Creativity

## Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements. There is a PDE GPA minimum requirement for certification (not graduation).

*A minimum GPA of 2.0 in the major and overall are required. A 2.8 GPA is required for teacher certification.*

## Campus Locations

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|-------------------|--|
| <b>Bloomsburg</b> | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Lock Haven</b> | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Mansfield</b>  | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Clearfield</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended                                  |