

Secondary Education

BSED Secondary Education - Earth & Space Science

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
EGGS120 Physical Geology (Natural World)	4	EGGS130 Historical Geology	4
MATH118 College Algebra, MATH140 Precalculus or MATH160 Calculus 1	3	WRIT103 Composition (Writing)	3
EGGS100 Intro to Environmental Science	3		
Semester Total	16	Semester Total	15

Second Year

Fall Courses	Credits	Spring Courses	Credits
SPEC220 Data Driven Interventions for Indiv w/ Exceptionalities	3	EDUC222 Principles & Structures in PK-12 Education	3
ELL320 Cultural Awareness and Sensitivity (Diversity)	3	EGGS101 Intro Physical Geography	3
CHEM118 Intro to Chemistry or CHEM121 General Chemistry 1	4	Elective	1
BIOL110 Principles of Biology 1 (Natural World)	4	EGGS105 Envir Issues & Choices (Global Perspectives)	3
ENGLxxx (Literature)	3	Gen Ed (History)	3
Semester Total	17	Semester Total	13

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	Gen Ed (Critical Reasoning)	3
EDUC346 Teaching in Diverse Contexts (Diversity)	3	EGGS259 Oceanography	3
PHYS208 Introductory Physics 1 or PHYS211 General Physics 1	4	AST103 Astronomy	3
Gen Ed (Arts)	3	EGGS255 Meteorology	3
Semester Total	16	Semester Total	15

Fourth Year

Fall Courses	Credits	Spring Courses	Credits
MSED480 Teaching Science in Secondary Schools	3	MSED491 Student Teaching 1	6
MSED495 Secondary School Experiences	3	MSED492 Student Teaching 2	6
EDUC474 Classroom Management and Effective Discipline	3		
Science Elective	3		
Science Elective	3		
Semester Total	15	Semester Total	12

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.

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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 (28 credits)

- CHEM118 Introductory Chemistry or
CHEM121 General Chemistry 1
- EGGS100 Intro to Environmental Science
- EGGS130 Historical Geology
- EGGS101 Intro Physical Geography or
EGGS123 Soil Science
- EGGS255 Meteorology
- EGGS259 Oceanography
- ASTR103 Astronomy
- PHYS208 Introductory Physics 1 or
PHYS211 General Physics 1

Electives

- Science Elective
- 300-400 Level Science Elective

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)
 - EGGS105 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)
 - EGGS120 Physical Geology (Natural World)
 - CHEM121 General Chemistry 1 (Natural World)
- Creativity & Expression (6 credits)
 - ENGLxxx (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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| Bloomsburg | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| Lock Haven | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| Mansfield | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| Clearfield | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended |