

Middle Level Education

BSED Middle Level Science Education

This degree map is based on the 2023-24 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester. 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	3	SPEC110 Intro to Individuals with Exceptionalities (Gen Ed Citizenship)	3
MSED110 Intro to Middle and Secondary Education	3	EDTC200 Technology for Teaching and Learning (Gen Ed Technology)	3
EGGS100 Intro to Environmental Science	3	EGGS120 Physical Geology (Gen Ed Natural World)	4
Gen Ed (History)	3	EGGS102 World Cultural Geography (Gen Ed Diversity)	3
MATH118 College Algebra GE (Quantitative)	3	WRIT103 Composition (Gen Ed Writing)	3
Semester Total	15	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 Individ w/ Exceptionalities	3	ASTR103 Astronomy	3
MATH140 Precalculus or MATH160 Calculus 1	3	EGGS105 Environmental Issues and Choices (Gen Ed Global Perspectives)	3
BIOL110 Principles of Biology 1 (Gen Ed Natural World)	4	Elective	3
ENGL151, 152, 227, 228, 230, 240, 250, 281, 284, 289, 290, 291, 330, 390, 391 or 420 (Gen Ed Literature)	3	STA141 Intro to Statistics (Gen Ed Quantitative)	3
Semester Total	16	Semester Total	15

Third Year

Fall Courses	Credits	Spring Courses	Credits
EDUC346 Teaching in Diverse Contexts GE (Diversity)	3	EDUC358 Assessment and Differentiation for Inclusive Classrooms	3
EDUC344 Connecting Research and Classroom Practice	3	Gen Ed (Critical Reasoning)	3
SPEC330 Methods of Instruction for Individ with Exceptionalities	3	CHEM118 Introductory Chemistry or CHEM121 General Chemistry 1	3
PHYS208 Introductory Physics or PHYS211 General Physics 1	4	Gen Ed (Oral Communication)	3
Gen Ed (Arts)	3	HIST401 History of Pennsylvania	3
Semester Total	15	Semester Total	15

Fourth Year

Fall Courses	Credits	Spring Courses	Credits
MSED440 Teaching ML LA/SS	3	MSED491 Student Teaching 1	6
MSED450 Teaching ML Science/Math	3	MSED492 Student Teaching 2	6
EDUC474 Classroom Management and Effective Discipline	3		
EDUC358 Assessment and Differentiation for Inclusive Classrooms	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.

Curriculum Checklist

Required Education Courses (42 credits)

- EDUC222 Principles & Structures of PK12 Education
- EDUC334 Conducting Research and Classroom Practice
- EDUC346 Teaching in Diverse Contexts
- EDUC358 Assessment and Differentiation for Inclusive Classrooms
- EDUC474 Classroom Management and Effective Discipline
- MSED110 Intro to Middle and Secondary Education
- MSED420 Content Area Literacy, Grades 4-12
- MSED440 Teaching Middle Level LA/SS
- MSED450 Teaching Middle Level Science/Math
- 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 (15 credits)

- ASTR103 Astronomy
- EGGS100 Intro to Environmental Science
- PHYS208 Introductory Physics OR PHYS211 General Physics 1
- CHEM118 Introductory Chemistry OR CHEM121 General Chemistry 1
- MATH118 College Algebra
- MATH140 Precalculus OR MATH160 Calculus 1
- HIST01 History of Pennsylvania

Electives

- Science Elective
- MSED453 Teaching Science in the Secondary Schools

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
 - STA141 Intro to Statistics (Quantitative)
 - WRIT103 Composition (Writing)
 - History
 - Oral Communication
- Interconnections (9 credits)
 - EGGS102 World Cultural Geography (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 or Ethical Reasoning
- Natural World & Technologies (9 credits)
 - EDTC200 Technology for Teaching & Learning (Technology)
 - BIOL110 Principles of Biology 1(Natural World)
 - EGGS120 Physical Geology (Natural World)
- Creativity & Expression (6 credits)
 - ENGL151, 152, 227, 228, 230, 240, 250, 281, 284, 289, 290, 291, 330, 391 or 420 (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.

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 |