

Secondary Education

BSED Secondary Education - Physics

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 | PHYS212 General Physics 2 | 4 |
| PHYS211 General Physics 1 (Natural World) | 4 | MATH170 Calculus II | 4 |
| MATH160 Calculus 1 | 4 | CHEM121 General Chemistry 1 (Natural World) | 4 |
| WRIT103 Composition (Writing) | 3 | | |
| Semester Total | 17 | Semester Total | 15 |

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 | EDTC200 Technology for Teaching and Learning (Technologies) | 3 |
| ENGT101 Intro to Engineering Tech | 3 | PHYS302 Mechanics: Dynamics | 3 |
| PHYS301 Mechanics: Statics | 3 | MATH370 Differential Equations | 3 |
| MATH270 Calculus 3 | 4 | ENGL151 Intro to Literature (Literature) | 3 |
| Semester Total | 16 | Semester Total | 15 |

Third Year

| Fall Courses | Credits | Spring Courses | Credits |
|--|---------|---|---------|
| SPE330 Methods of Instruction for Indiv w/ Exceptionalities | 3 | EDUC358 Assessment & Differentiation for Inclusive Classrooms | 3 |
| EDUC334 Connecting Research and Classroom Practice | 3 | EDUC346 Teaching in Diverse Contexts (Diversity) | 3 |
| ENGT141 Electric Circuit Analysis | 4 | Gen Ed (History) | 3 |
| EGGS105 Environmental Issues and Choices (Global Perspectives) | 3 | Gen Ed (Critical Reasoning) | 3 |
| Elective | 3 | PHYS310 Modern Physics | 3 |
| Semester Total | 15 | Semester Total | 15 |

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 |
| PHYS442 Thermodynamics | 3 | | |
| Gen Ed (Arts) | 3 | | |
| Gen Ed (Oral Communications) | 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 (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 (34 credits)

- PHYS212 General Physics 2
- ENGT101 Intro to Engineering Tech
- ENGT141 Electric Circuit Analysis
- PHYS310 Modern Physics
- PHYS301 Mechanics: Statics
- PHYS302 Mechanics: Dynamics
- PHYS442 Thermodynamics
- MATH170 Calculus 2
- MATH270 Calculus 3
- MATH370 Differential Equations

Electives (2 credits)

- 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
 - MATH160 Calculus 1 (Quantitative)
 - WRIT103 Composition (Writing)
 - History
 - Oral Communication
- Interconnections (9 credits)
 - EDUC346 Teaching in Diverse Contexts (Diversity)
 - ELL320 Cultural Awareness and Sensitivity (Diversity)
 - EGG105 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)
 - PHYS211 General Physics I (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

- | | |
|-------------------|--|
| 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 |