

COMMONWEALTH UNIVERSITY

BSED Secondary Education - Physics

Secondary Education

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

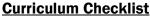
Third Year			
Fall Courses	Credits	Spring Courses	Credits
SPE330 Methods of Instruction for Indiv w/ Exceptionalities	3	EDUC358 Assessment & Differentiation for Inclusive Classrooms	3
EDUC334 Connecting Research and Classroom Practice	3	EDUC346 Teaching in Diverse Contexts (Diversity)	3
ENGT141 Electric 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.

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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)
 - 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)
 - 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	oxtimes Online; $oxtimes$ In-person; $oxtimes$ Blended
Lock Haven	oxtimes Online; $oxtimes$ In-person; $oxtimes$ Blended
Mansfield	oxtimes Online; $oxtimes$ In-person; $oxtimes$ Blended
Clearfield	🗆 Online; 🗆 In-person; 🗆 Blended