

PHYSICS, B.S.ED.

This program is for students who wish to become certified public-school teachers for grades 7-12. The course requirements in Physics and Education are designed to meet the standards set by the Pennsylvania Department of Education for teachers.

Major in Physics, BSE

Code	Title	Hours
Credits Required for Major		

true

Minimum Residency 50% of Major Courses

true

true

Minimum GPA 2.0 for Major

true

REQUIRED PHYSICS COURSES

PHYS 231	Physics 1 with Calculus (C- or better)	0
PHYS 232	Physics 2 with Calculus (C- or better)	0
PHYS 233	Wave-Particle Theory	3
PHYS 266	Electronics	3
PHYS 311	Mechanics 1	3
PHYS 321	Electromagnetic Fields 1	3
PHYS 334	Macroscopic Physics	3
PHYS 351	Intermediate Physics Lab 1	0
PHYS 352	Intermediate Physics Lab 2	1
PHYS 492	Physics Research and Seminar	1
PHYS 498	Independent Study/Research	1

PHYSICS REQUIRED ELECTIVE

Meteorology or Intro to Astronomy - Choose 1 of the following:		
ESCI 241	Meteorology	0-3
PHYS 317	Introduction to Astronomy	

Total Hours 18-21

Professional Education

Code	Title	Hours
EDUCATIONAL FOUNDATIONS		

EDFN 211	Foundations Modern Education	3
EDFN 241	Psychological Foundations of Teaching	3

REQUIRED EDUCATION COURSES

EDSE 321	Issues in Secondary Education	3
EDFN 330	Instructional Technology, Design & Assessment	3
EDSE 435	Teaching of Science in Secondary Schools	3

ACCOMMODATIONS AND ADAPTATIONS

EDSE 340	Content Area Literacy for Diverse Classrooms	3
SPED 346	Secondary Students w/Disabilities in Inclusive Settings	3

STUDENT TEACHING

EDSE 471	Student Teaching Seminar	3
Student Teaching		9
EDSC 461	Student Teaching in Science	
Total Hours		33

Req Related for Physics, BSE

Code	Title	Hours
CHEMISTRY AND COMPUTER SCIENCE		

CHEM 111	Introductory Chemistry 1	0
Introductory Chemistry II or Intro to Prog Data Science - Choose 1 of the following:		

CHEM 112	Introductory Chemistry 2	
CSCI 151	Intro to Programming for Data Science I	

MATHEMATICS

Calculus I(C- minimum) or Calculus Honors - Choose 1 of the following:		
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MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	

MATH 211	Calculus 2 (C- minimum)	4
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MATH 311	Calculus 3	4
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MATH 365	Ordinary Differential Equation	3
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Total Hours 15-20

Advanced Professional Studies, BSE

Code	Title	Hours
*Clearances are valid for one year from the date that appears in the header of this degree audit in the field 'Clearance Date.' Clearances cannot expire in the middle of a semester.		

APS REQUIREMENTS

English Composition - Choose 1 of the following:		3
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ENGL 110	Intro to College Writing	
ENGL 110H	Hnrs:Intro to College Writing	

English Literature - Choose 1 of the following:		3
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ENGL 230	Introduction to Literature	
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ENGL 231	World Literature 1	
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ENGL 232	World Literature 2	
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ENGL 233	Early British Literature	
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ENGL 234	Later British Literature	
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ENGL 235	American Literary Tradition I	
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ENGL 236	American Literary Tradition II	
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ENGL 241H	H:Explorations in World Lit	
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ENGL 242	Reading Our World:	
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ENGL 292	Science Fiction	
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ENGL 333	African-American Literature 1	
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ENGL 333H	Hnrs:African American Lit 1	
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ENGL 334	African American Literature 2	
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ENGL 334H	Hnrs:African American Lit 2	
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ENGL 336	New Dimensions to World Lit	
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ENGL 338	Folklore and Literature	
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ENGL 401	Old Eng Lang and Literature	
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ENGL 402	Middle Eng Lang and Literature	
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Mathematics

Two Mathematics courses are required for BSE students. You have taken 0 course(s). It is preferable to take two courses designated as G2. [Click here to search for MATH courses on the current web schedule.](#) BIOL 375 will fulfill one Mathematics course for BSE BIOL students.

EDFN 211 Foundations Modern Education 6
& EDFN 241 and Psychological Foundations of Teaching

48 earned (transcript) credit hours are required

APS registration status

You ARE NOT eligible to register for courses requiring APS status.

ACT 126 - Educator Ethics Training

You must submit your Educator Ethics Training.

Pre-Service Testing Required

Pre-Service Testing Status is indicated by one of the following: 1.) PSTA - Pre-Service Testing Accomplished: Verified passing pre-service test scores meet the requirement. 2.) PSTI - Pre-Service Testing Incomplete: Non-passing pre-service test scores were submitted prior to the August 1, 2015 policy change. Passing scores must still be achieved in order to meet the PA certification requirements. 3.) PSTU - Pre-Service Testing Unverified: Unofficial copies of pre-service test scores were submitted. Official scores must be sent from the testing company in order to meet PA certification requirements. 4.) PSTX - Pre-Service Testing Waived: Per PDE - ACT 136, the Pre-Service Testing Requirement has been waived.

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Your GPA is below 3.0 - please see an advisor

If you are given the 2.8 GPA Exception for graduation and you graduate with a GPA lower than 3.0, you must have higher certification test scores in order to meet PA state certification requirements.

No dispositions-related holds

If the requirement above is checked as complete, then there are currently no dispositions-related holds on your APS Status. Registration for APS courses is permitted when all APS requirements have been met. If it is incomplete, you have a hold and APS registration will not be allowed.

Full Admission to APS

When all requirements are met, you must submit application for admission to APS status. [Click here for the application.](#)