

## **B.S.ED.: Physics**

Effective Summer 2020

As per PRP3604: All students earning a first baccalaureate degree will take at least 30 of their last 45 credits at Bloomsburg University, no more credits are required than the 30 credits. All first baccalaureate students will take at least 50% of credits required for the Major from a PASSHE university. Bloomsburg University may require up to a maximum of 50% of the Major credits. Program exceptions to the policy are to be approved by the Office of the Chancellor.

Students seeking Secondary Education Certification in Physics must declare majors in both Physics (BA) and Secondary Education (Physics) and complete the full Physics (BA) course sequence as well as the Secondary Education Professional Course and Certification requirements. Students must consult their advisers in both departments each semester regarding course selection and other certification requirements.

A total of 128 credits are required for a Bachelor of Science in Education degree with a specialization in Physics. Required courses include:

### **Required by Physics for Secondary Ed. Major (51 credits)**

CHEM.115	Chemistry for the Sciences 1
CHEM.116	Chemistry for the Sciences 2
COMPSCI.116	Algorithmic Processes for Computers (or any computer programming course)
EGGS.105	Environmental Issues & Choices
MATH.225	Calculus III
MATH.322	Differential Equations
PHYSICS.123	Contemporary Physics
PHYSICS.211	General Physics I
PHYSICS.212	General Physics II
PHYSICS.302	Mechanics: Dynamics (Offered alternate years)
PHYSICS.310	Modern Atomic Physics
PHYSICS.314	Electricity & Magnetism (Offered alternate years)
PHYSICS.315	Electronics
PHYSICS.318	Optics (Offered alternate years)
PHYSICS.400	Advanced Physics Lab (Offered alternate years)

### **Required by Education (40 credits)**

EDFOUND.204	Educational Technology
EDFOUND.206	Teachers, Schools & Society
EDFOUND.291	Principles of Teaching
EDFOUND.406	Multicultural Education
EDFOUND.427	Classroom Mgt. & Eff. Discipline
EDFOUND.497	Student Teaching: 1st Experience
EDFOUND.498	Student Teaching: 2nd Experience
PROFSTUD.301	Teaching, Learning and Assessment
PROFSTUD.498	Student Teaching Seminar
	Practicum
PSYCH.101	General Psychology
SECED.453	Teaching Science in Sec Sch (fall only)

**Required by PDE (29 credits)**

ENGLISH.101	Foundations of College Writing I
ENGLISH_____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)
MATH.125	Calculus I
MATH.126	Calculus II
PROFSTUD.494	ELL Strategies
PSYCH.212	Adolescent Psychology
SPECED.101	Introduction to Except Individuals
SPECED.275	Linking Assessment
SPECED.358	Methods of Instruction for Students with Disabilities

**Meeting General Education Goals:**

Credit toward General Education Goals is met with General Education Points (GEPs). Courses can offer a maximum of 4 GEPs. Some courses offer GEPs toward more than one General Education Goal. The range of courses awarding GEPs, and the degree to which major requirements and general education requirements may be satisfied simultaneously, will change as more courses are approved for General Education credit. See [www.bloomu.edu/mycore](http://www.bloomu.edu/mycore)

Course Number	Course Title	GEPs
<b>***Goal 1: Communication; minimum 7 GEPs, from minimum of 3 disciplines.</b>		
EXERSCI.211	Methods and Materials in Elementary School Phys. Ed.	1
EDFOUND.291	Principles of Teaching	2
ENGLISH.101	Foundations of College Writing I	3
ENGLISH._____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)	1
<b>*Goal 2: Information Literacy; minimum 2 GEPs</b>		
EDFOUND.204	Educational Technology	3
<b>**Goal 3: Analysis, Quantitative Reasoning, &amp; Problem Solving; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
CHEM.115	Chemistry for the Sciences 1	1
MATH.125	Calculus I	2
MATH.126	Calculus II	3
<b>**Goal 4: Cultures &amp; Diversity; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
EDFOUND.291	Principles of Teaching	1
EDFOUND.406	Multicultural Education	2
SPECED.101	Intro to Exceptional Individuals	2
<b>**Goal 5: Natural Sciences; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
CHEM.115	Chemistry for Sciences I	3
EGGS 105	Environmental Issues & Choices	1
MATH 125	Calculus I	1
<b>**Goal 6: Social Sciences; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
EDFOUND.206	Teachers, Schools, and Society	1
EGGS.105	Environmental Issues & Choices	1
PSYCH.101	General Psychology	3
<b>**Goal 7: Humanities; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
ENGLISH _____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)	2
MUSIC.101/105 or THEATRE.102/103	Music Listening, Music Literature, Introduction to Theatre or Theatre Appreciation	3

<b>*Goal 8: Second Language Competency; minimum 2 GEPs.</b>		
<b>102</b>	<b>Competency test or any second language 102 level</b>	<b>2</b>
<b>*Goal 9: Physical Activity &amp; Health; minimum 2 GEPs.</b>		
<b>EXERSCI.211</b>	<b>Methods and Materials in Elementary School Phys. Ed.</b>	<b>2</b>
<b>*Goal 10: Responsible Citizenship; minimum 2 GEPs.</b>		
<b>EDFOUND.406</b>	<b>Multicultural Education</b>	<b>1</b>
<b>SPECED.101</b>	<b>Intro to Exceptional Individuals</b>	<b>1</b>

\*GEPs for this goal may come from just 1 discipline. \*\*GEPs must come from at least 2 disciplines. \*\*\*GEPs must come from at least 3 disciplines.

### **Additional Notes on the Secondary Education Major:**

**Admission Packet, for Admission into the Teacher Education Program:** due by 48 credits, signed by your Education advisor and submitted to Teacher Education Admission Packets Coordinator.

McCormick 3103A Forms and Information available Online from [www.bloomu.edu/teaching-learning](http://www.bloomu.edu/teaching-learning)

- Eligible test scores: PRAXIS ([www.ets.org](http://www.ets.org)), PAPA ([www.pa.nesinc.com](http://www.pa.nesinc.com)):**
  - **PRAXIS Core Academic Skills for Educators** (Reading score: 156; Writing score: 162; Math score: 142)
  - **PAPA – Pre-service Academic Perf. Assessment** (Reading score: 220; Writing score: 220; Math score: 193)
  - **SAT (Old):** 500 or higher in Reading, Writing and Math.
  - **ACT:** Before 9/2015; Composite Score: 23; English/Writing Score: 22; Math Score: 21  
After 9/2015; Reading Score: 22; Writing Score: 21; Math Score: 21
  - **PRAXIS II:** Grades 7-12 field of concentration ([www.ets.org](http://www.ets.org))
- Cumulative GPA of 3.0, with a C or better** in all professional education and specialization courses.
- 6 credits of college-level math and 6 credits in English composition and literature**
- Completion of early field experience:** five days/40 hours, non-credit, w/appropriate diversity in contexts: forms required
- Two recommendations** from Teacher Education faculty: standardized form required
- Professional liability insurance** (available through PSEA, at [www.PSEA.org](http://www.PSEA.org))
- Tuberculosis Screening** results, from a test taken within the last two years (likely repeated before student teaching).
- A resume** that follows the sample format: format available from Education Studies
- Criminal checks:** Act 34 (Criminal Record Check); Act 151 (Child Abuse History Check); Act 114 FBI Clearance: register at [www.pa.cogentid.com](http://www.pa.cogentid.com); register under Department of Education; fingerprinting available at BU bookstore. Clearances are valid for 1 year for one year: will need to repeat before student teaching

**Student Teaching—Placement Card and Eligibility Packet:**

- **Student Teaching Placement Card**—intent to student teach:  
    **for fall** student teaching, due **by February**  
    **for spring** student teaching, due **by September**
- **Student Teaching Eligibility Packet:** Download checklist and forms from the Student Teaching tab under Student Resources on the College of Education homepage.
- **Student Teaching Eligibility Packet is due:** signed by your Education advisor, to the Student Teaching Placement Office, 3103A McCormick:  
    **April 10** for fall student teaching  
    **October 1** for spring student teaching