Secondary Education - Physics

Effective Fall 2013

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 122-125 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 (50 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)

COMMSTUD.103	Public Speaking or COMMSTUD.104 Interpersonal Communication
EDFOUND.204	Educational Technology
EDFOUND.206	Teachers, Schools & Society
EDFOUND.251	Psychological Foundations of Ed
EDFOUND.291	Principles of Teaching
EDFOUND.311	Classroom Meas. & Assessment
EDFOUND.406	Multicultural Education
EDFOUND.427	Classroom Mgt. & Eff. Discipline
EDFOUND.497	Student Teaching: 1st Experience
EDFOUND.498	Student Teaching: 2nd Experience
PROFSTUD.320	PDS (replaces EDFOUND.311 & SECED.351)
PSYCH.101	General Psychology
SECED.453	Teaching Science in Sec Sch (fall only)

Required by PDE (27 credits)

ENGLISH.101 Foundations of College Writing I

ENGLISH_____ Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257)

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

Course Number	Course Title	GEPs		
***Goal 1: Communication; minimum 7 GEPs, from minimum of 3 disciplines.				
COMMSTUD.103/104	Public Speaking or Interpersonal Communication	3		
EDFOUND.291	Principles of Teaching	2		
ENGLISH.101	Foundations of College Writing I	3		
	*Goal 2: Information Literacy; minimum 2 GEPs			
EDFOUND.204	Educational Technology	3		
**Goal 3: Analysis, Quan	titative Reasoning, & Problem Solving; minimum 5 GEPs, from mi	nimum of		
	2 disciplines.			
CHEM.115	Chemistry for the Sciences 1	1		
MATH.125	Calculus I	2		
MATH.126	Calculus II	3		
**Goal 4: Cultu	res & Diversity; minimum 5 GEPs, from minimum of 2 disciplines.			
EDFOUND.291	Principles of Teaching	1		
EDFOUND.406	Multicultural Education	2		
SPECED.101	Intro to Exceptional Individuals	2		
**Goal 5: Nat	tural Sciences; minimum 5 GEPs, from minimum of 2 disciplines.			
CHEM.115	Chemistry for Sciences I	3		
EGGS 105	Environmental Issues & Choices	1		
MATH 125	Calculus I	1		
**Goal 6: Social Sciences; minimum 5 GEPs, from minimum of 2 di				
EDFOUND.206	Teachers, Schools, and Society	1		
EGGS.105	Environmental Issues & Choices	1		
PSYCH.101	General Psychology	3		
**Goal 7: I	Humanities; minimum 5 GEPs, from minimum of 2 disciplines.			
ENGLISH	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257)	2		
MUSIC.101 or	Music Listening or Introduction to	3		
THEATRE.102/103	Theatre or Theatre Appreciation	ာ		
*Goal 8: Second Language Competency; minimum 2 GEPs; Select one of the two option				
ASLTERP.155	American Sign Language 1	2		
102	Competency test or any second language 102 level	4		

*Goal 9: Physical Activity & Health; minimum 2 GEPs.		
*	Goal 10: Responsible Citizenship; minimum 2 GEPs.	
EDFOUND.406	Multicultural Education	1
SPECED.101	Intro to Exceptional Individuals	1

^{*}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:

Admis	sion Packet, for Admission into the Teacher Education Program: due by 60 credits, signed by
your E	ducation advisor and submitted to Teacher Education Admission Packets Coordinator. Forms
and in	formation available from Education Studies.
	Eligible test scores: After April 2, 2012: PAPA (Pre-service Academic Performance Assessment)
	www.pa.nesinc.com: Reading, score of 220 Writing, score of 220 Math, score of 220
	or Praxis I: Academic Skills Assessment if taken on or before April 2, 2012 (and retakes until April 2, 2014):
	Reading, score of 172 Writing, score of 173 Mathematics, score of 173
	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/30 hours, non-credit, w/ appropriate diversity in contexts: forms required
П	in contexts: forms required Two recommendations from Teacher Education faculty: standardized form required
П	Professional liability insurance (available through PSEA, at 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 ; 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
Studer	nt 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:
	April 1 for fall student teaching
	October 1 for spring student teaching

October 1 for spring student teaching