

Bloomsburg University - Department of Physics and Engineering Technology
Bachelor of Science in Physics

Courses	Cr.	Taken:	Courses	Cr.	Taken:
Courses Required for Physics Major	33		Values² - 3 Credits		
54.211 General Physics I	4	_____	1) _____	3	_____
54.212 General Physics II	4	_____	Fitness - 2 Credits		
54.302 Mechanics: Dynamics	3	_____	1) _____	1	_____
54.310 Modern Atomic Physics	3	_____	2) _____	1	_____
54.314 Electricity & Magnetism	3	_____	Group A (Humanities) - 12 Credits		
54.315 Electronics	4	_____	1) _____	3	_____
54.318 Optics	4	_____	2) _____	3	_____
54.400 Advanced Physics Laboratory	2	_____	3) _____	3	_____
54.422 Thermodynamics	3	_____	4) _____	3	_____
54.450 Introduction to Quantum Mechanics	3	_____	Group B (Social Sciences) - 12 Credits		
			1) _____	3	_____
Physics Electives (12 credits minimum; 300-level or above)	12		2) _____	3	_____
1) _____	3	_____	3) _____	3	_____
2) _____	3	_____	4) _____	3	_____
3) _____	3	_____	Group C (Nat. Sci. & Math) - 0 additional credits needed		
4) _____	3	_____	1) Satisfied by major requirement 52.115 Chemistry for Science I		
			2) Satisfied by major requirement 53.126 Calculus II		
Collateral Courses Required:	26		3) Satisfied by major requirement 54.211 General Physics I		
52.115 Chemistry for the Sciences I	4	_____	4) Satisfied by major requirement 54.212 General Physics II		
52.116 Chemistry for the Sciences II	4	_____			
53.125 Calculus I ¹	3	_____	Free Electives (10 credits minimum)	10	
53.126 Calculus II	3	_____	1) _____	3	_____
53.225 Calculus III	3	_____	2) _____	3	_____
53.322 Differential Equations	3	_____	3) _____	3	_____
56.116 Algorithmic Processes	3	_____	4) _____	1	_____
53.226 Calculus IV	3	_____	5) _____		_____
or 53.314 Linear Algebra			6) _____		_____
or 56.373 Numerical Methods in Computing					
General Education - Total Credits:	38		Optional 09.100 University Seminar³	1	
Communication² - 9 Credits			TOTAL CREDITS FOR PROGRAM	120	
1) 20.101 Composition 1	3	_____	Two Approved Diversity Courses:⁴		
2) 2nd Level Writing:	3	_____	1) _____		_____
3) _____	3	_____	2) _____		_____
Quantitative - 0 Additional Credits					
Satisfied by major requirement 53.125 Calculus I ¹					

Note 1: A placement test is required for 53.125; students who need a prerequisite course will have fewer free electives in the program.

Note 2: Students may count one Communications or Values course under the Group A or B category; May need additional free elective so total credits still equal 120.
Note 3: If 09.100 not taken, then take additional Free Elective Credit.
Note 4: Two Major, General Education or Elective Courses selected must also qualify as Diversity Courses; see approved list in catalog and consult advisor.