

Department of Physics & Engineering
West Chester University of Pennsylvania

B.S. Physics Curriculum – Schedule for Graduate School Track & Applied Track
Last Updated: June 17, 2019

Semester 1

FYE	First Year Experience	4
MAT 161	Calculus I	4
WRT 120	Effective Writing I	3
	Gen Ed / Free Elective	3
	Gen Ed / Free Elective	3
	Total Credits	17

Semester 2

PHY 170	Physics I	4
MAT 162	Calculus II	4
WRT 2XX	Effective Writing II	3
	Gen Ed / Free Elective	3
	Total Credits	14

Semester 3

PHY 180	Physics II	4
MAT 261	Calculus III	4
MAT 321	Linear Algebra	3
	Gen Ed / Free Elective	3
	Total Credits	14

Semester 4

PHY 240	Intro. to Modern Physics	3
MAT 343	Differential Equations	3
PHY 175	Computational Physics	3
	Gen Ed / Free Elective	3
	Gen Ed / Free Elective	3
	Total Credits	15

Semester 5

PHY 300	Mechanics	3
PHY 370	Mathematical Physics	3
PHY 420	Quantum Mechanics	3
CHE 103	General Chemistry I	3
CRL 103	Exper. Gen. Chem. I	1
	Gen Ed / Free Elective	1
	Total Credits	14

Semester 6

PHY XXX	Physics Elective	3
PHY 350	Thermodynamics	3
CHE 104	General Chemistry II	3
CRL 104	Exper. Gen. Chem. II	1
	Gen Ed / Free Elective	3
	Gen Ed / Free Elective	3
	Total Credits	16

Semester 7

PHY 430	Electricity & Magnetism I	3
PHY 310	Intermediate Physics Lab I	3
PHY XXX	Physics Elective	3
	Gen Ed / Free Elective	3
	Gen Ed / Free Elective	3
	Total Credits	15

Semester 8

PHY 320	Intermediate Physics Lab II	3
PHY XXX	Physics Elective	3
	Gen Ed / Free Elective	3
	Gen Ed / Free Elective	3
	Gen Ed / Free Elective	3
	Total Credits	15

All students must take:

PHY 170, PHY 180, PHY 175, PHY 240, PHY 300, PHY 310, PHY 320, PHY 350, PHY 370, PHY 420, PHY 430

Recommended PHY XXX electives for students in the graduate school track: PHY 425 (QM-II) and PHY 435 (E&M-II)

Recommended PHY XXX electives for students in the applied track: PHY 330 (Electronics), PHY 410 (Optics)

Total number of credits in B.S. Physics Program = 120

- A. Majors shall not be permitted more than one repeat of a Physics course.
- B. Upper level courses (numbered 300 or above) must be completed with a grade of C or better.
- C. All Physics electives must be at the 300 level or above.