

Department of Physics
West Chester University of Pennsylvania

B.S. Physics Curriculum – Schedule for Graduate School Track & Applied Track
Last Updated: September 2018

Semester 1

MAT 161	Calculus I	4
	Behavioral & Social Sci.	3
WRT 120	Effective Writing I	3
	Free Elective	3
	Humanities Gen Ed	3
		16

Semester 2

PHY 170	Physics I	4
MAT 162	Calculus II	4
WRT 2XX	Effective Writing II	3
	Free Elective	3
		14

Semester 3

PHY 180	Physics II	4
MAT 261	Calc III	4
MAT 321	Linear Algebra	3
Sci Gen Ed	BIO or ESS	3
		14

Semester 4

PHY 240	Intro. to Modern Physics	3
MAT 343	Differential Equations	3
PHY 175	Computational Physics	3
SPK	Communications Gen. Ed.	3
	Interdisciplinary Elective	3
		15

Semester 5

PHY 300	Mechanics	3
PHY 370	Mathematical Physics	3
PHY 420	QM I	3
CHE 103	General Chemistry I	3
CRL 103	Exper. Gen. Chem. I	1
	Free Elective	2
		15

Semester 6

PHY XXX	Physics Elective	3
PHY 350	Thermodynamics	3
CHE 104	General Chemistry II	3
CRL 104	Exper. Gen. Chem. II	1
	Free Elective	6
		16

Semester 7

PHY 430	E & M I	3
PHY 310	Inter. Physics Lab I	3
	Physics Elective	3
	Arts Gen. Ed	3
	Humanities Gen Ed	3
		15

Semester 8

PHY 320	Inter. Physics Lab II	3
PHY XXX	Physics Elective	3
	Diverse Commun. Elective	3
	Behavioral & Social Sci.	3
	Free Elective	3
		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 Curriculum = 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