

Four-Year Degree Plan for Major in Physics, B.S.

Note that this is a sample four-year plan. There are other course sequences that will allow a student to graduate within four years as long as prerequisite courses are taken in the proper sequence. This sample plan does not guarantee course availability, and adjustments to students' plans may be necessary if they are unable to take specific courses during specific semesters. Students who are placed into lower level AWR, MAT or other prerequisite courses will need to adjust their four-year plans accordingly.

Similarly, students who bring in Advanced Placement, Dual Enrollment or transfer credit for courses will need to adjust their four-year plans. A minimum of a 2.0 GPA both overall and in the major is required for graduation. In addition to major requirements, all components of the Baccalaureate Experience must be completed in order to graduate. A student must earn a minimum of 124 credit hours to qualify for the Bachelor of Science degree in Physics.

First (Freshman) Year - Fall Semester

PHY 205	General Physics with Calculus I	4
PHY 205L	General Physics with Calculus I Laboratory	
MAT 260	Calculus I	4
AWR 101	Writing and Inquiry	4
	Social Science (Bacc. Exp)	4
BAC 101	First-Year Seminar I	1
	or	
HON 101	Pathways to Honors 1	1

Subtotal: 17

First (Freshman) Year - Spring Semester

PHY 206	General Physics with Calculus II	4
PHY 206L	General Physics with Calculus II Laboratory	
MAT 261	Calculus II	4
AWR 201	Writing and Research	4
	Humanities (Bacc. Exp.)	4
BAC 102	First-Year Seminar II	1
	or	
HON 102	Pathways to Honors 2	1

Subtotal: 17

Second (Sophomore) Year - Fall Semester

PHY 307	Modern Physics	4
MAT 262	Calculus III	4
PHY 280	Mathematical Methods for Physics	4
	Humanities/Fine Arts (Bacc. Exp.)	4

Subtotal: 16

Second (Sophomore) Year - Spring Semester

PHY 320	Classical Mechanics	4
MAT 300	Differential Equations	4
	Physics Elective	4
	Social Science (Bacc. Exp)	4

Subtotal: 16

Third (Junior) Year - Fall Semester

PHY 340	Electricity and Magnetism	4
	Physics Elective	4
	Biological Science (Bacc. Exp)	3
	Humanities/Fine Arts (Bacc. Exp.)	4

Subtotal: 15

Humanities/Fine Arts: (A)

Third (Junior) Year - Spring Semester

PHY 350	Advanced Physics Lab (W)	4
	Physics Elective	4
	General Elective (W)	4
	General Elective (IG) (NW)	4

Subtotal: 16

Fourth (Senior) Year - Fall Semester

PHY 360	Quantum Mechanics	4
PHY 451	Physics Research	1-4
	Physics Elective	4
	Social Science (Bacc. Exp)	4
	General Elective	4

Subtotal: 18

Social Science: (IG) (NW)

2 credits of PHY 451 should be taken

Fourth (Senior) Year - Spring Semester

PHY 430	Thermodynamics and Statistical Mechanics	4
PHY 451	Physics Research	1-4
	General Elective	4
	General Elective	4

Subtotal: 14

2 credits of PHY 451 should be taken

Note: The math requirement and physical science component of the Baccalaureate Experience are fulfilled by courses in the above sequence (i.e., PHY 205, MAT 260).