

Advising Course Plan - Physics Major, Applied Physics Concentration - 3 Year Plan

This advising plan shows an example of working through the requirements for the major in three years. It is appropriate for students who have already completed eight units of coursework. The student's individual academic plan will be developed in consultation with an adviser and reviewed each semester prior to registering for the next semester. This plan assumes that the student has not taken any courses for the major prior to the first semester shown in the plan.

Courses for the major that should be completed prior to the first semester of this plan: None required.

First Year		
Fall		Units
PHYS 141P	University Physics I	1
MATH 130 or 141Q	Calculus I with Review Part I Calculus I with Analytic Geometry	1
	General Education Requirement of Elective	1
	General Education Requirement or Elective	1
Term Units		4
Spring		
PHYS 142P	University Physics II	1
MATH 131Q or 142Q	Calculus I with Review Part 2 Calculus II with Analytic Geometry	1
	General Education Requirement or Elective	1
	General Education Requirement or Elective	1
Term Units		4
Summer		
MATH 142Q	Calculus II with Analytic Geometry (if not previously completed, course should be taken in the summer term)	1
Term Units		1
Second Year		
Fall		
PHYS 243	Modern Physics	1
PHYS 352 or 356	Optics Electronics	1
PHYS 380	Physics Colloquium	0.0
CSCI 261 or 141	Data Science I Introduction to Computer Science I	1
Term Units		3
Spring		
PHYS 312	Laboratory Techniques	1
PHYS 497	Senior Project Proposal	0.5
PHYS 380	Physics Colloquium	0.0
PHYS 251 or 362 ¹	Biophysics (or Elective) Thermophysics	1
MATH 211Q	Linear Algebra	1
Term Units		3.5
Third Year		
Fall		
PHYS 352 or 356	Optics Electronics	1
PHYS 498	Senior Project	1
PHYS 380	Physics Colloquium	0.0

General Education Requirement or Elective		1
General Education Requirement or Elective		1
Term Units		4
Spring		
PHYS 412	Advanced Laboratory Techniques	1
PHYS 251 or 362	Biophysics (or Elective) Thermophysics	1
PHYS 499	Senior Seminar	0.5
PHYS 380	Physics Colloquium	0.0
	General Education Requirement or Elective	1
	General Education Requirement or Elective	1
Term Units		4.5

Total Unit: 24

¹ PHYS 251 and PHYS 362 are typically offered in the spring with one offered each year. Students must take one of them for the major.