Advising Course Plan - Physics Major - 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. It is also appropriate for students working on the 3-2 Pre-Engineering Option. 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 or Elective		1
General Educaiton 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, this course should be taken in summer sterm)	1
	Term Units	**1**
Second Year		
Fall		
PHYS 243	Modern Physics	1
PHYS 352 or 356[1]	Optics (or Elective) Electronics	1
MATH 243Q	Calculus III with Analytic Geometry	1
PHYS 380	Physics Colloquium	0.0
General Education Requirement or Elective		1
	Term Units	**4**
Spring		
PHYS 304	Mathematical Methods in Physics	1
PHYS 312	Laboratory Techniques	1
PHYS 322, 332, or 343[2]	Mechanics I Electricity and Magnetism Quantum Mechanics I	1
PHYS 497	Senior Project Proposal	0.5
PHYS 380	Physics Colloquium	0.0
	Term Units	**3.5**
Third Year		
Fall		
PHYS 322, 332, or 343[2]	Mechanics I Electricity and Magnetism Quantum Mechanics I	1
PHYS 352 or 356[1]	Optics (or Elective) Electronics	1
PHYS 498	Senior Project	1
PHYS 380	Physics Colloquium	0.0
General Education Requirement or Elective		1
	Term Units	**4**
Spring		
PHYS 322, 332, or 343[2]	Mechanics I Electricity and Magnetism Quantum Mechanics I	1
PHYS 412[1]	Advanced Laboratory Techniques (or Elective)	1
PHYS 499	Senior Seminar	0.5
PHYS 380	Physics Colloquium	0.0
CSCI 261 or 141	Data Science I Introduction to Computer Science I	1
	Term Units	**3.5**

Total Unit: 24

1 One lab course selected from PHYS 352, PHYS 356, or PHYS 412 is required for the major, the others may be taken as general electives.

2 Take one of the following each semester: PHYS 322, PHYS 332, PHYS 343