

# Advising Course Plan - Physics Major 2 Year Plan

General Education Requirement or Elective	1
<b>Term Units</b>	<b>4.5</b>

**Total Unit: 16**

<sup>1</sup> 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.

This advising plan shows an example of working through the requirements for the major in two years. It is appropriate for students who have already completed sixteen units of coursework with many of the General Education requirements satisfied by that earlier 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 taken two semesters of University Physics and two semesters of Calculus with Analytic Geometry prior to the first semester shown in the plan. Students who have completed less than 16 units, have a substantial number of General Education requirements yet to satisfy, or who have not completed the courses just listed may not be able to complete the degree in two years.

Courses for the major that should be completed prior to the first semester of this plan: PHYS 141P, PHYS 142P, MATH 141Q, and MATH 142Q.

<b>First Year</b>		
<b>Fall</b>		<b>Units</b>
PHYS 243	Modern Physics	1
PHYS 352 or 356 <sup>1</sup>	Optics (or Elective) Electronics	1
PHYS 380	Physics Colloquium	0.0
MATH 243Q	Calculus III with Analytic Geometry	1
General Education Requirement or Elective		1
<b>Term Units</b>		<b>4</b>
<b>Spring</b>		
PHYS 304	Mathematical Methods in Physics	1
PHYS 312	Laboratory Techniques	1
PHYS 322, 332, or 343	Mechanics I Electricity and Magnetism Quantum Mechanics I	1
PHYS 497	Senior Project Proposal	0.5
PHYS 380	Physics Colloquium	0.0
<b>Term Units</b>		<b>3.5</b>
<b>Second Year</b>		
<b>Fall</b>		
PHYS 322, 332, or 343	Mechanics I Electricity and Magnetism Quantum Mechanics I	1
PHYS 352 or 356 <sup>1</sup>	Optics (or Elective) Electronics	1
PHYS 498	Senior Project	1
PHYS 380	Physics Colloquium	0.0
General Education Requirement or Elective		1
<b>Term Units</b>		<b>4</b>
<b>Spring</b>		
PHYS 322, 332, or 343	Mechanics I Electricity and Magnetism Quantum Mechanics I	1
PHYS 412 <sup>1</sup>	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