

Advising Course Plan - Physics Major - Applied Physics Concentration

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
FSEM 100	First Year Seminar	1
General Education requirement		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
Writing Enhanced course requirement		1
General Education requirement		1

Term Units **4**

Summer

If not previously completed, MATH 142Q should be taken in the summer term

Term Units **0**

Second Year

Fall		Units
PHYS 243	Modern Physics	1
PHYS 380	Physics Colloquium	0.0
General Education requirement		1
General Education requirement		1
General Education requirement		1

Term Units **4**

Spring

PHYS 312	Laboratory Techniques	1
PHYS 380	Physics Colloquium	0.0
MATH 211Q	Linear Algebra	1
BIOL 141P	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics (as prerequisite for PHYS 252; or General Education requirement)	1
General Education requirement		1

Term Units **4**

Third Year

Fall		Units
PHYS 352 or 356 ¹	Optics Electronics	1
PHYS 380	Physics Colloquium	0.0
CSCI 141	Introduction to Computer Science I (or General Education requirement or Elective)	1

Junior Seminar 1

General Education requirement or Elective 1

Term Units **4**

Spring

PHYS 251 or 362 ¹	Biophysics Thermophysics	1
PHYS 380	Physics Colloquium	0.0
PHYS 412 ¹	Advanced Laboratory Techniques	1
PHYS 497	Senior Project Proposal	0.5
CSCI 261 ¹	Data Science I	1

Term Units **3.5**

Fourth Year

Fall

PHYS 352 or 356 ¹	Optics Electronics	1
PHYS 380	Physics Colloquium	0.0
PHYS 498	Senior Project	1
General Education requirement or Elective		1
General Education requirement or Elective		1

Term Units **4**

Spring

PHYS 251 or 362 ¹	Biophysics Thermophysics	1
PHYS 380	Physics Colloquium	0.0
PHYS 412 ¹	Advanced Laboratory Techniques	1
PHYS 499	Senior Seminar	0.5
General Education requirement or Elective		1
General Education requirement or Elective		1

Term Units **4.5**

Total Unit: 32

¹ If selected for major requirement, or General Education requirement, or Elective.