

# 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

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**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

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**Term Units** **4**

### Summer

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

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**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

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**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

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**Term Units** **4**

## Third Year

Fall		Units
PHYS 352 or 356 <sup>1</sup>	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

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**Term Units** **4**

### Spring

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

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**Term Units** **3.5**

## Fourth Year

### Fall

PHYS 352 or 356 <sup>1</sup>	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

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**Term Units** **4**

### Spring

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

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**Term Units** **4.5**

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**Total Unit: 32**

<sup>1</sup> If selected for major requirement, or General Education requirement, or Elective.