Physics major course requirements

For a B.A. with a major in Physics (see reverse for B.S.)

Required in Physics (33 credit hours)

- _____ Phys 201 Physics I (5) [Fall]
- Phys 203 Calculus-Based Physics II (5) [Spring]
- _____ Phys 204 Modern Physics (5) [Spring]
- _____ Phys 207 Introduction to Electronics (2) [Fall]
- _____ Phys 311 Classical Mechanics (4) [Fall]
- Phys 350 Advanced Physics Laboratory (2) [Spring]
- _____ Phys 360 Junior Seminar (1) [full-year course, meets once a week]
- _____ Phys 460 Senior Seminar (1) [full-year course, meets once a week]
- plus, 4 credit hours from the following courses:
- _____ Phys 330 Statistical and Thermal Physics (4)
- _____ Phys 332 Electromagnetism (4)
- ____ Phys 411 Quantum Mechanics (4)

plus, 4 credit hours taken at the 300 level or above:

- ____ Phys 313 Electronics (2)
- ____ Phys 314 Digital Electronics (2)
- _____ Phys 320 Computational Physics (2)
- _____ Phys 321 Signal Processing (2)
- _____ Phys 325 Topics in Contemporary Physics (2)
- _____ Phys 330 Statistical and Thermal Physics (4)
- _____ Phys 332 Electromagnetism (4)
- _____ Phys 380 Topics (1-4)
- ____ Phys 411 Quantum Mechanics (4)
- ____ Phys 490 Independent Study (1-4)
- _____ Phys 491 Internship (1-4)
- ____ Phys 498 Senior Thesis (1-4)
- _____ Phys 499 Senior Honors Thesis (0-4)

Required in Related Departments (17 credit hours)

- _____ Math 201 Calculus I (4)
- _____ Math 202 Calculus II (4)
- ____ One additional math course. Either
 - _____ Math 212 Multivariable Calculus (4) OR
 - ____ Math 215 Differential Equations (4)
- Lab-based science course. (5) from among the following
 - _____Biol 170 Concepts of Biology: Biological Information, Reproduction, and Evolution (5)
 - _____ Biol 180 Concepts of Biology: Energy and Resources in Biology (5)
 - ____ Comp 150 Computer Programming I (5)
 - _____ Chem 121 Models of Chemical Systems (5) with Chem 162 Chemical Structure and Analysis (5) also recommended
 - ____ Esci 101 Introduction to Environmental Science (5)

For a B.S. with a major in Physics (see reverse for B.A.)

Required in Physics (43 credit hours)

- _____ Phys 201 Physics I (5) [Fall]
- _____ Phys 203 Calculus-Based Physics II (5) [Spring]
- _____ Phys 204 Modern Physics (5) [Spring]
- Phys 207 Introduction to Electronics (2) [Fall]
- _____ Phys 311 Classical Mechanics (4) [Fall]
- _____ Phys 350 Advanced Physics Laboratory (2) [Spring]
- _____ Phys 360 Junior Seminar (1) [full-year course, meets once a week]
- _____ Phys 460 Senior Seminar (1) [full-year course, meets once a week]
- plus, 4 credit hours from the following courses:
- Phys 330 Statistical and Thermal Physics (4)
- _____ Phys 332 Electromagnetism (4)
- ____ Phys 411 Quantum Mechanics (4)

plus, 2 credit hours of research from:

- Phys 490 Independent Study (1-4)
- _____ Phys 491 Internship (1-4)
- ____ Phys 498 Senior Thesis (1-4)
- _____ Phys 499 Senior Honors Thesis (0-4)

plus, 12 additional credit hours at the 300 level or above:

- ____ Phys 313 Electronics (2)
- _____ Phys 314 Digital Electronics (2)
- _____ Phys 320 Computational Physics (2)
- _____ Phys 321 Signal Processing (2)
- _____ Phys 325 Topics in Contemporary Physics (2)
- _____ Phys 330 Statistical and Thermal Physics (4)
- _____ Phys 332 Electromagnetism (4)
- _____ Phys 380 Topics (1-4)
- Phys 411 Quantum Mechanics (4)
- _____ Phys 490 Independent Study (1-4)
- _____ Phys 491 Internship (1-4)
- Phys 498 Senior Thesis (1-4)
- ____ Phys 499 Senior Honors Thesis (0-4)

Required in Related Departments (30 or 31 credit hours)

- _____ Math 201 Calculus I (4)
- _____ Math 202 Calculus II (4)
- _____ Math 212 Multivariable Calculus (4)
- _____ Math 215 Differential Equations (4)
- ____ Comp 150 Computer Programming I (5)
- _____ Two additional courses from the following (9 or 10)
 - _____Biol 170 Concepts of Biology: Biological Information, Reproduction, and Evolution (5)
 - _____Biol 180 Concepts of Biology: Energy and Resources in Biology (5)
 - ____ Comp 250 Computer Programming II (4)
 - ____ Chem 121 Models of Chemical Systems (5)
 - ____ Chem 162 Chemical Structure and Analysis (5)
 - _____ Esci 101 Introduction to Environmental Science (5)