

SIMPSON COLLEGE

PHYSICS

PHYSICS MAJOR

REQUIRED COURSES:

- PHYS 191 General Physics I
- PHYS 192 General Physics II
- PHYS 230 Modern Physics
- PHYS 271 Experimental Physics I (.5 course)
- PHYS 370 Physics Seminar (.25 course)

Choose at least two of the following four courses:

- PHYS 310 Thermal Physics
- PHYS 320 Classical Mechanics
- PHYS 340 Electromagnetic Fields
- PHYS 360 Quantum Mechanics

Choose at least two and a half courses:

- Physics Electives 200-level or above, including: Phys 210 Intro to Laser Science, Phys 250 Statics, Phys 270 Soph/Jr Seminar, additional 300-level courses from above, any special topics or directed study courses, Phys 298/398 Research.

Capstone:

- PHYS 385 Capstone Completion

Required Supporting Courses:

- MATH 151 Calculus I
- MATH 152 Calculus II
- MATH 251 Calculus III
- MATH 345 Differential Equations

In addition to the required courses specified above, physics students are encouraged to consider additional physics electives according to their career goals as well as the following supporting courses: Math 255 Linear Algebra, CmSc 150, (155) Fundamentals of Computing I (II), and Chem 101 (102) Bonds and Structures I (II). For those students interested in graduate school in physics (or closely related area), it is virtually imperative to take all four of the 300-level physics theory courses: Phys 310 Thermal Physics, Phys 320 Classical Mechanics, Phys 340 Electromagnetic Fields, and Phys 360 Quantum Mechanics.

PHYSICS MINOR

REQUIRED COURSES:

- PHYS 191 General Physics I AND Phys 192 General Physics II
- OR
- PHYS 151 Principles of Physics I AND Phys 152 Principles of Physics II

Electives:

- Choose 2.5 courses (10 credits) of physics electives numbered 200-level and above.