

# SIMPSON COLLEGE

# PHYSICS-ENGINEERING

## PHYSICS-ENGINEERING 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 250 Statics OR J-term course at Washington University St. Louis

### Choose at least one course from the following:

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

Engineering Electives 300- level or above (10 credit-hours) transferred from engineering school

### Required Supporting Courses:

- CHEM 101 General Chemistry I
- CHEM 102 General Chemistry II\*
- CMSC 150 Fund. Of Computing I
- MATH 151 Calculus I
- MATH 152 Calculus II
- MATH 251 Calculus III
- MATH 345 Differential Equations

*\*Chemistry 102 may be waived if it is not required by the particular engineering school or program the student wishes to enter.*

In addition to the above required courses, students are urged to consider taking Math 255 Linear Algebra. Students should also be careful to meet any other specific course requirements of their chosen engineering program.

### Physics-Engineering Capstone

The capstone of the physics-engineering major is the successful completion (and transfer back to Simpson College) of 10 credit-hours of engineering courses, 300-level or above, from an accredited engineering school.