

## Ph.D. in Engineering Science Description

The Ph.D. in engineering science is offered in a number of emphasis areas: aeroacoustics, chemical engineering, civil engineering, computational hydroscience, computer science, electrical engineering, electromagnetics, environmental engineering, geology, geological engineering, hydrology, mechanical engineering, and material science and engineering.

**Minimum Total Credit Hours: 66**

### Course Requirements

A student must complete the requirements for one of the emphasis areas. All doctoral programs require completion of a comprehensive examination, dissertation prospectus, and a dissertation. See the department chair or adviser for specific requirements for an emphasis area.

### Specializations

#### SCHOOL OF ENGINEERING

##### MECHANICAL ENGINEERING

- [Emphasis - Aeroacoustics](#)

##### CHEMICAL ENGINEERING

- [Emphasis - Chemical Engineering](#)

##### CIVIL ENGINEERING

- [Emphasis - Civil Engineering](#)

##### MECHANICAL ENGINEERING

- [Emphasis - Computational Hydroscience](#)

##### COMPUTER & INFORMATION SCIENCE

- [Emphasis - Computer Science](#)

##### ELECTRICAL ENGINEERING

- [Emphasis - EE \(Electromagnetics\)](#)
- [Emphasis - Electrical Engineering](#)

##### CIVIL ENGINEERING

- [Emphasis - Environmental Engineering](#)

##### GEOLOGY & GEOLOGICAL ENGINEERING

- [Emphasis - Geological Engineering](#)
- [Emphasis - Geology](#)
- [Emphasis - Hydrology](#)

##### MECHANICAL ENGINEERING

- [Emphasis - Materials Science and Engr.](#)
- [Emphasis - Mechanical Engineering](#)

