

# 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 engineering, computer science, electrical engineering, electromagnetics, environmental engineering, geology, geological engineering, hydrology, mechanical engineering, and material science and engineering.

## Minimum Total Credit Hours: 54 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](#)

##### [Chemical Engineering](#)

- [Emphasis - Aeroacoustics](#)

##### [Mechanical Engineering](#)

- [Emphasis - Aeroacoustics](#)

##### [Biomedical Engineering](#)

- [Emphasis - Biomedical Engineering](#)

##### [Chemical Engineering](#)

- [Emphasis - Chemical Engineering](#)

##### [Civil Engineering](#)

- [Emphasis - Civil Engineering](#)

##### [Electrical and Computer Engineering](#)

- [Emphasis - Computer Engineering](#)

##### [Computer & Information Science](#)

- [Emphasis - Computer Science](#)

##### [Electrical and Computer Engineering](#)

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

##### [Geology & Geological Engineering](#)

- [Emphasis - Environmental Engineering](#)

##### [Chemical Engineering](#)

- [Emphasis - Environmental Engineering](#)

##### [Civil Engineering](#)

- [Emphasis - Environmental Engineering](#)

##### [Geology & Geological Engineering](#)

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

##### [Civil Engineering](#)

- [Emphasis - Hydrology & Comp Hydroscience](#)

##### [Geology & Geological Engineering](#)

- [Emphasis - Hydrology & Comp Hydroscience](#)

##### [Mechanical Engineering](#)

- [Emphasis - Hydrology & Comp Hydroscience](#)

##### [Chemical Engineering](#)

- [Emphasis - Materials Science and Engr](#)

##### [Civil Engineering](#)

- [Emphasis - Materials Science and Engr](#)



**Mechanical Engineering**

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

