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

**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