

## [Emphasis - Telecommunications](#)

- [M.S. in Engineering Science](#)
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### **M.S. in Engineering Science** **Description**

The M.S. 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, material science and engineering, and telecommunications.

### **Minimum Total Credit Hours: 30** **Course Requirements**

A student must complete the requirements for an emphasis area. For most emphasis areas, the degree may be completed as a:

- Thesis option (30-hour program, to include 6 hours of thesis),
- Nonthesis option (30-hour program, to include a minimum of 3 hours of a design-oriented project course), or
- Coursework option (30-hour program, to include a final oral examination in front of a committee, but no written report)

### **Emphasis - Telecommunications** **Description**

An M.S. in engineering science with emphasis in telecommunications prepares a student with advanced technical knowledge and communication skills for pursuing a career in industry, engineering research and development, public service, or for doctoral work.

### **Course Requirements**

The M.S. with emphasis in telecommunications must be completed as a thesis option only. In addition to 6 hours of thesis, 24 hours of course work is required. This typically will include courses in wireless communications, digital communications, communications networking, probabilistic modeling, telecommunications policy, and management information systems. Coursework must be approved by the program director.

### **Other Academic Requirements**

A candidate must prepare and orally defend a thesis.

