

STRUCTURAL ENGINEERING

Requirements

Master of Structural Engineering (Course Based)

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Master of Science Structural Engineering (Thesis Based)

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Master of Structural Engineering Requirements (Course-Based)

48 credit hours of course work as approved by student's academic advisor.

- The following courses are required unless completed as an undergraduate:

Code	Title	Hours
CE 421	Structural Mechanics II	4
CE 436	Foundation Engineering	4
CE 520	Structural Engineering Externship	4
CE 521	Matrix Methods for Structural Analysis	4
CE 522	Structural Dynamics	4
CE 523	Advanced Solid Mechanics	4
CE 524	Building Design	4
CE 525	Bridge Engineering	4
CE 532	Structural Design in Concrete II	4
CE 533	Connections and Detailing	4
CE 535	Structural Design in Prestressed Concrete	4

- At least 32 credit hours must be upper-level CE courses (CE4xx or CE5xx).
- At least 36 credit hours must be graduate-level courses. Thus no more than 12 credit hours may be 400-level.

Course of Study Prerequisite for Structural Engineering Master's degrees

The required courses have the following prerequisite courses: CE 321 Structural Mechanics I, CE 336 Soil Mechanics, CE 431 Structural Design In Steel I, and CE 432 Structural Design in Concrete I. Students without these requirements or equivalent will be required to take any missing prerequisites, and these prerequisites will not be counted in the 48 hours required for the Master's degree.

Master of Science in Structural Engineering Requirements (Thesis-Based)

Courses must be 400 or 500 level CE courses approved by the student's committee and distributed as follows:

- 20 credit hours of core CE courses
- 12 credit hours of CE599 Thesis Research
- 8 credit hours of mathematics courses
- 8 credit hours of elective courses

Course of Study Prerequisite for Structural Engineering Master's degrees

The required courses have the following prerequisite courses: CE 321 Structural Mechanics I, CE 336 Soil Mechanics, CE 431 Structural Design In Steel I, and CE 432 Structural Design in Concrete I. Students without these requirements or equivalent will be required to take any missing prerequisites, and these prerequisites will not be counted in the 48 hours required for the Master's degree.