ONLINE - STRUCTURAL DESIGN AND CONSTRUCTION

Administered by: Department of Civil and Environmental Engineering
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Degrees Offered: Master of Science in Civil Engineering

Master of Science in Civil Engineering

Intended for engineering students who want broad technical competence in structural engineering and construction.

Admission Requirements

Students are expected to have an undergraduate degree in engineering or its equivalent.

Bridge Program - Students who lack an appropriate background are asked to make up deficiencies by taking a program of courses that is designed in consultation with the graduate advisor. These courses are taken in addition to the degree requirements. Please note that the prerequisites for bridge courses must also be met.

Degree Requirements

A minimum of 30 degree credits, not including any bridge courses, is required. Candidates must consult with the online graduate advisor for advising. Students must attain a minimum GPA of 3.0 in the core courses listed below, and a minimum overall GPA of 3.0.

Structural Core Courses
9 credits as follows:

- CE 632 Prestressed Concrete Design (SUMMER)
- CE 634 Structural Dynamics (SPRING)
- CE 636 Stability of Structures (FALL)

Construction Engineering Core Courses
9 credits as follows:

- CE 610 Construction Management
- CE 615 Infrastructure and Facilities Remediation
- CE 616 Construction Cost Estimating

General Technical Electives Courses
6 credits from below:

- CE 611 Project Planning and Control
- CE 620 Open Channel Flow
- CE 617 Historic Preservation
- CE 621 Hydrology
- CE 711 Methods Improvement in Construction
- TRAN 603 Intro to Urban Transportation Planning
- TRAN 752 Traffic Control

Management/Leadership Electives
6 credits from below:

- EM 602 Management Science
- EM 632 Legal Aspects in Construction
- HRM 601 Organizational Behavior