

MS Civil Engineering – Structural Engineering

This course plan serves as an example of the program. Program requirements and course offerings are subject to change.

<p>Semester 1</p> <ul style="list-style-type: none"> ● Core Course (4 units) ● Approved Elective (4 units) 	<p>Semester 2</p> <ul style="list-style-type: none"> ● Core Course (4 units) ● Approved Elective (4 units)
<p>Semester 3</p> <ul style="list-style-type: none"> ● Approved Elective (4 units) ● Approved Elective (4 units) 	<p>Semester 4</p> <ul style="list-style-type: none"> ● Approved Elective (4 units)

Core Courses (8 units)

- CE 507: Mechanics of Solids (4 units)
- CE 541: Dynamics of Structures (4 units)

Approved Electives (20 units)

Grouping 1: choose at minimum 8 units

- CE 533: Geotechnical Earthquake Engineering (4 units)
- CE 537: Advanced Reinforced Concrete (4 units)
- CE 539: Advanced Steel Structures (4 units)
- CE 599: Seismic Design of Structures (4 units)

Grouping 2: choose at minimum 4 units

- CE 529: Finite Element Analysis (4 units)
- CE 531: Quantifying Uncertainty (2 units)
- CE 532: Data Analytics (2 units)
- CE 538: Prestressed Concrete (2 units)
- CE 540: Tall and Special Structures (2 units)
- CE 548: Timber and Masonry Design (2 units)
- CE 599: Special Topics (4 units)