

MS Civil Engineering – Construction Engineering

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

Fall 2024	Spring 2025
Core Course (4 units)Core Course (4 units)	Core Course (4 units)Approved Elective (4 units)
Fall 2025	Spring 2026
 Approved Elective (4 units) Approved Elective (4 units) 	Approved Elective (4 units)

Core Courses (12 units)

- CE 501: Architecture, Engineering and Construction Practices (4 units)
- CE 502: Construction Business (4 units)
- CE 569: Project Controls (4 units)

Approved Electives (16 Units)

- CE 402: Computer Methods in Engineering (2 units)
- CE 412: Construction Contracts and Law (2 units)
- CE 462: Construction Methods and Equipment (2 units)
- CE 469: Sustainable Design & Construction (2 units)
- CE 470: Building Information Modeling: Project Visualization and Simulation (4 units)
- CE 525: Engineering Mathematical Analysis (3 units)
- CE 526: Engineering Mathematical Methods (4 units)
- CE 554: Risk and Reliability Analysis for Civil Infrastructure Systems (3 units)
- CE 558: International Construction and Engineering (3 units)
- CE 573: Advanced Technologies in AEC Practices (4 units)
- CE 574: Construction Means & Methods (4 units)
- ENE 505: Energy and the Environment (4 units)
- CSCI 455x: Introduction to Programming systems Design (4 units)
- MATH 501: Numerical Analysis and Computation (4 units)
- ISE 530: Optimization Methods for Analytics (3 units)