

MS Civil Engineering - Construction Engineering Sample Course Plan

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

<p>Fall 2024</p> <ul style="list-style-type: none"> • Required Course (4 units) • Required Course (4 units) 	<p>Spring 2024</p> <ul style="list-style-type: none"> • Required Course (4 units) • Elective (4 units)
<p>Fall 2025</p> <ul style="list-style-type: none"> • Elective (4 units) • Elective (4 units) 	<p>Spring 2025</p> <ul style="list-style-type: none"> • Elective (4 units)

Required Courses (12 units)

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

Electives (16 Units)

- CE 412: Construction Contracts and Law (2 units)
- CE 460: Construction Engineering (4 units)
- CE 461: Construction Estimating (4 units)
- CE 462: Construction methods and Equipment (2 units)
- CE 470: Building Information Modeling: Project Visualization and Simulation (4 units)
- CE 558 International Construction and Engineering (3 units)
- CE 564: Construction Planning and Preconstruction (4 units)
- CE 573: Advanced Technologies in AEC Practices (4 units)
- CE 574: Construction Means & Methods (4 units)
- CE 575: Sustainability & Well-Being & Innovation in the Built Environmental (4 units)
- CE 578: Technology-Enabled Architecture, Engineering and Construction (4 units)
- CSCI 455x: Introduction to Programming System Designs (4 units)
- ARCH 511: Building Systems: Materials and Construction (4 units)
- BAEP 551: Introduction to New Ventures (3 units)
- BAEP 553: Cases in New Venture Management (1.5-3 units)
- FBE 400x: Introduction to Real Estate Finance and Development (4 units)
- FBE 465: Real Estate Analysis and Computer Modeling (2 units)
- FBE 466: Management of Real Estate Development: Feasibility Studies (4 units)
- RED 510: Real Estate Development (4 Units)
- RED 511: Foundations of Real Estate Analysis (4 units)
- RED 512: Real Estate Project Analysis (4 units)
- MOR 569: Negotiation & Deal-Making (3 units)
- ISE 515: Engineering Project Management (4 units)