## Example minor programs in Civil Engineering

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### 1) Structural Engineering focus
- **ENGR 14** Applied Mechanics: Statics (A,S) 3
- **CEE 101A** Mechanics of Materials (W) 4
- **CEE 101B** Mechanics of Fluids (S; for breadth) 4
- **CEE 101C** Geotechnical Engineering (A) 4
- **CEE 180** Structural Analysis (A) 4
- **CEE 181** Design of Steel Structures (A) 4
- **CEE 182** Reinforced Concrete Structures (W) 4

### 2) Architectural Design focus
- **CEE 31Q** Accessing Architecture through Drawing (A,W) 4
- **CEE 100** Managing Sustainable Building Projects (S; for breadth) 4
- **CEE 110** Building Information Modeling (A) 4
- **CEE 130** Architectural Design (W) 4
- **CEE 131A** Introduction to Design Professions (S) 2
- **CEE 137B** Intermediate Architecture Studio (W) 5
- **CEE 156** Building Systems (S; for breadth) 4
- **CEE 199B** Directed Studies in Architecture (A,W,S) 3

### 3) Construction Engineering and Management focus
- **CEE 100** Managing Sustainable Building Projects (A) 4
- **CEE 102** Legal Aspects of Engineering and Construction (W) 3
- **CEE 147** Cases in Personality, Leadership and Negotiation (S) 3
- **CEE 151** Negotiation (A,S) 3
- **CEE 154** Cases in Estimating Costs (A) 3
- **CEE 156** Building Systems (S) 4
- **CEE 176A** Energy Efficient Buildings (W; w/lab) 4

### 4) Sustainability focus
- **CEE 31Q** Accessing Architecture through Drawing (A,W; prereq. for 136) 4
- **CEE 100** Managing Sustainable Building Projects (S; for breadth) 4
- **CEE 109** Creating a Student Workforce for Sustainability (W) 3
- **CEE 110** Building Information Modeling (A; prereq. for 136) 4
- **CEE 115** Goals and Methods of Sustainable Building Projects (S) 3
- **CEE 130** Architectural Design (W; prereq. for 136) 4
- **CEE 136** Green Architecture (A) 4
- **CEE 226** Life Cycle for Complex Systems (A; for breadth) 3-4

**Note:** For a focus on the water-related side of civil engineering, see Environmental Engineering minor, Water Resources focus.