STRUCTURAL ENGINEERING, MINOR

Structural engineers focus on the design and physical integrity of buildings and other large structures, assuring they are safe and stable. They frequently work with architects and contractors. In addition to new construction, they often inspect and design plans for maintenance or renovation of existing structures.

The minor in structural engineering is designed especially for students in the following majors:

- Architecture
- · Mechanical Engineering
- · Industrial and Manufacturing Engineering
- · Materials
- Geology
- Physics

This minor is not available to civil engineering majors.

Requirements

The 19-credit minor requires the following:

Code	Title	Credits		
Required				
CIV ENG 335	Soil Mechanics	3		
CIV ENG 360	Introduction to Structural Analysis	3		
CIV ENG 372	Introduction to Structural Design	4		
CIV ENG 571	Design of Concrete Structures	3		
or CIV ENG 572	Design of Steel Structures			
Electives				
Select two electives (see below)		6		
Total Credits	19			

Electives

С	ode	Title	Credits
С	IV ENG 401	Intermediate Strength of Materials	3
С	IV ENG 431	Materials of Construction	3
С	IV ENG 456	Foundation Engineering	3
С	IV ENG 463	Introduction to Finite Elements	3
С	IV ENG 502	Experimental Stress Analysis	3
С	IV ENG 560	Intermediate Structural Analysis	3
С	IV ENG 571	Design of Concrete Structures	3
С	IV ENG 572	Design of Steel Structures	3
С	IV ENG 573	Design of Masonry and Wood Structures	3
С	IV ENG 574	Design of Prestressed Concrete Structures	3
С	IV ENG 579	Earthquake Engineering	3
Α	RCH 301	Architecture Systems 1	3
Α	RCH 510	Survey of Structural Analysis and Design	3
Α	RCH 516	Building Construction	3

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667, EMS Room E386.