

Degree Requirements

To earn a Bachelor of Science in Civil Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Civil and Materials Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

All students must take the Fundamentals of Engineering Examination (FE Exam) by graduation.

BS in Civil Engineering Degree Requirements	Hours
Nonengineering and General Education Requirements	54
Required in the College of Engineering	65
Technical Electives	9
Total Hours—BS in Civil Engineering	128

Nonengineering and General Education Requirements

Courses	Hours
ENGL 160—Academic Writing I: Writing for Academic and Public Contexts	3
ENGL 161—Academic Writing II: Writing for Inquiry and Research	3
Exploring World Cultures course ^a	3
Understanding the Creative Arts course ^a	3
Understanding the Past course ^a	3
Understanding the Individual and Society course ^a	3
Understanding U.S. Society course ^a	3
MATH 180—Calculus I ^b	5
MATH 181—Calculus II ^b	5
MATH 210—Calculus III ^b	3
MATH 220—Introduction to Differential Equations I	3
PHYS 141—General Physics I (Mechanics) ^b	4
PHYS 142—General Physics II (Electricity and Magnetism) ^b	4
CHEM 112—General College Chemistry I ^b	5
Choose one of the following courses:	4
EAES 101—Global Environmental Change	
EAES 111— Earth, Energy and the Environment	
Total Hours—Nonengineering and General Education Requirements	54

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

Courses	Hours
ENGR 100—Orientation ^a	0 ^a
CS 108—Fortran Programming for Engineers	3
CME 201—Statics	3
CME 203—Strength of Materials	3
CME 205—Structural Analysis I	3
CME 211—Fluid Mechanics and Hydraulics	3
CME 216—Introduction to Environmental Engineering	3

CME 260—Properties of Materials	3
CME 300—Composition and Properties of Concrete	2
CME 301—Behavior and Design of Metal Structures	3
CME 302—Transportation Engineering	3
CME 310—Design of Reinforced Concrete Structures	3
CME 311—Water Resources Engineering	3
CME 315—Soil Mechanics and Laboratory	4
CME 396—Senior Design I	3
CME 397—Senior Design II	2
CME 402—Geometric Design of Highway Facilities	3
CME 405—Foundation Analysis and Design	3
CME 434—Finite Element Analysis I	3
IE 201—Engineering Economy	3
ME 210—Engineering Dynamics	3
ME 250—Engineering Graphics and Design	3

Choose one of the following courses:	3
ECE 210—Electrical Circuit Analysis (3)	
ME 205—Introduction to Thermodynamics (3)	

Total Hours—Required in the College of Engineering 65

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Electives

Courses	Hours
At least two courses (6 hours) to be chosen from the following list to strengthen the design content:	6
CME 400—Advanced Design of Reinforced Concrete (3)	
CME 401—Advanced Design of Metal Structures (3)	
CME 403—Hydraulic Design (3)	
CME 406—Bridge Design (3)	
CME 408—Traffic Engineering and Design (3)	
CME 409—Structural Analysis II (3)	
CME 410—Design of Prestressed Concrete Structures (3)	
CME 415—Environmental Geotechnology (3)	
CME 421—Water Treatment Design (3)	
CME 422—Wastewater Treatment Design (3)	
CME 425—Environmental Remediation Engineering (3)	
CME 427—Engineering Hydrology (3)	
CME 428—Groundwater Hydraulics and Contaminant Transport Modeling (3)	
CME 454—Structural Analysis and Design of Tall Buildings (3)	
Three additional hours to be selected from any 400-level CME courses, including those listed above	3
Total Hours—Technical Electives	9

Note: Students who are interested in taking the Illinois Structural Engineering Licensure Examination must take two courses in the structural design area. This statement is not a degree requirement and the availability of the structural design courses varies from time to time.