

Department of Civil and Materials Engineering

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Administration:

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Civil engineering is a broadly based discipline that encompasses many specialties. The civil engineering curriculum provides students with a strong background in engineering and applied sciences.

Civil Engineering Program Educational Objectives

Graduates of the Civil Engineering program at the University of Illinois at Chicago will establish careers in engineering, research and development, and/or management professions and be involved in professional societies. Graduates of the program are expected within a few years of graduation:

- To apply technical expertise, effective design skills, and sustainability principles to address evolving engineering challenges affecting a diverse society
- To be engaged in continuing education. Motivated graduates will have pursued or have well-formulated plans to pursue graduate education
- To effectively and ethically contribute as a member, manager, or leader of multidisciplinary teams through efficient communication of technical and nontechnical issues

A majority of those in the engineering profession will be licensed Professional Engineers within five years of graduation, and a majority of those practicing structural engineering will become licensed Structural Engineers within ten years.

Civil Engineering Student Outcomes

Graduates of the Civil Engineering Program will be able to:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments, as well as to analyze and interpret data
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- Function on multidisciplinary teams
- Identify, formulate, and solve engineering problems
- Understand professional and ethical responsibility
- Communicate effectively
- Understand the impact of engineering solutions in a global, economic, environmental, and societal context
- Recognize the need for, and an ability to engage in lifelong learning

- Understand contemporary issues
- Use the techniques, skills, and modern engineering tools necessary for engineering practice
- A majority of the graduates should pass the Fundamentals of Engineering Exam

Degree Program

- BS in Civil Engineering (<http://catalog.uic.edu/ucats/colleges-depts/engineering/cme/bs-cive>)

Minor

- Minor in Civil Engineering (<http://catalog.uic.edu/ucats/colleges-depts/engineering/cme/minor-cive>)