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 non-technical 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/ucat/colleges-depts/engineering/cme/bs-cive)

Minor

- Minor in Civil Engineering (http://catalog.uic.edu/ucat/colleges-depts/engineering/cme/Minor-cive)