

Department of Civil, Materials, and Environmental 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 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

The Civil Engineering Program at UIC is an ABET-accredited program and it follows and documents the ABET Student Outcomes (1) through (7) verbatim to support its Program Educational Objectives. Continuous assessment and attainment of these student outcomes prepare the graduates of the Civil Engineering program for professional practice. Students graduating from the Civil Engineering program at UIC will have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety,

and welfare, as well as global, cultural, social, environmental, and economic factors.

3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Accreditation

The civil engineering program at UIC is accredited by the [Engineering Accreditation Commission of ABET](#)

Degree Programs

- [BS in Civil Engineering](#)
- [BS in Environmental Engineering](#)

Minors

- [Minor in Civil Engineering](#)
- [Minor in Environmental Engineering](#)
- [Minor in Materials Engineering](#)