

Civil Engineering (PhD)

Civil engineering majors may specialize in building energy and environments; construction engineering and project management; infrastructure materials engineering; environmental and water resources engineering; geotechnical engineering; mechanics, uncertainty, and simulation in engineering; ocean engineering; structural engineering; sustainable systems; or transportation engineering. In addition, the Fariborz Maseeh Department of Civil, Architectural, and Environmental Engineering offers the Master of Science in Engineering with a major in environmental and water resources engineering.

Graduate Handbook

Graduate handbook information is updated and maintained by each program. Graduate handbooks are available within each program's office and [online](#). Please contact the program with concerns or questions.

Admission

A Bachelor of Science degree from a program in engineering accredited by ABET is the general prerequisite for admission to a graduate program in civil engineering. An applicant whose training does not meet this prerequisite may be accepted but will be required to pass a sequence of courses stipulated by the Graduate Studies Committee that will make up the deficiencies in undergraduate preparation. A list of the required courses is available from the graduate advisor.

Total hours required: 30

Requirements

Doctoral students complete at least 30 semester hours of coursework beyond the master's degree, including at least 6 hours of Dissertation. To be admitted to candidacy for the doctoral degree, the student must pass a preliminary (qualifying) examination administered by a committee, appointed by the graduate advisor, of at least three members of the civil engineering faculty, two of whom may be in the major area. This examination must be taken before the student registers for the second semester beyond the Master of Science in Engineering degree. The student must also submit a Program of Work that is approved by the chair of the civil engineering Graduate Studies Committee and the vice provost for graduate and postdoctoral studies. All students must demonstrate proficiency in English.

When the student has been admitted to candidacy, a dissertation committee is appointed by the vice provost for graduate and postdoctoral studies. When the student has completed most of their coursework, the dissertation committee administers a comprehensive examination in the major.

The defense of the dissertation is the final examination of the Doctor of Philosophy degree program. This examination is scheduled after the members of the dissertation committee have received a final draft of the dissertation that has been approved by the supervising professor.

Full-time students, and both teaching and research assistants, are required to register for nine semester hours of coursework during each fall/spring semester. These nine hours may include special problems, seminar, thesis, and dissertation courses.

Code	Title	Hours
All students must also follow the requirements and policies below:		
Graduate Engineering Requirements		
Graduate University Requirements		

The objectives of the graduate program in civil engineering are excellence in engineering education, research, and professional service. The program seeks to educate students to assume leadership positions in engineering practice, research, and education. The program also seeks to advance the state of the art and of the practice of civil engineering at both fundamental and applied levels through extensive research programs, and to disseminate the research outcomes through professional and scholarly activities. The program's thematic areas include architectural engineering, construction engineering and project management, construction materials, environmental and water resources engineering, geotechnical engineering, ocean engineering, structural engineering, and transportation engineering, as well as interdisciplinary areas of study.