

Civil and Environmental Engineering, PhD

Requirements

The Doctor of Philosophy program in civil and environmental engineering requires a minimum of 72 s.h. of graduate coursework, including at least 43 s.h. in formal coursework. Students may count a maximum of 29 s.h. in CEE:7999 Research: Civil and Environmental Engineering PhD Dissertation toward the degree. Students must maintain a cumulative grade-point average of at least 3.00.

Students may count up to 24 s.h. from the MS in civil and environmental engineering or from another qualified graduate program toward the PhD with departmental approval.

All students usually need at least three years of full-time graduate study to complete the degree. They must pass a qualifying examination and must pass a written and oral comprehensive examination before they may be formally admitted to PhD candidacy; the comprehensive examination usually is taken after all required coursework has been completed. Students devote one year to the preparation of a dissertation that contributes to knowledge in the field; they must defend their dissertation successfully in a final examination.

Core Courses

Students must successfully complete the appropriate civil and environmental graduate core courses for their area of focus. They are expected to complete core courses during their first year of study.

Elective Courses

Students should choose elective courses from any academic area that strengthens their knowledge in their area of focus and provides needed research topic training. Independent study, such as CEE:5998 Individual Investigations: Civil and Environmental Engineering, is not considered a suitable elective.

Seminars

All full-time students are required to register for and participate in seminars in their respective program of study; this includes CEE:5096 Water, Energy, and Food Nexus Seminar for areas that fall under the water and the environment curriculum (environmental engineering, environmental science, hydraulics, sustainable water development, and water resources) or CEE:5098 Graduate Seminar in Structures, Materials, Mechanics, and Transportation for students in transportation engineering or structures, mechanics and materials. Depending on the program of study, there may be additional seminar requirements.

Ethics Course

Students must enroll in ENGR:7270 Engineering Ethics.

Dissertation

Students must complete a dissertation and may apply up to 29 s.h. in CEE:7999 Research: Civil and Environmental Engineering PhD Dissertation toward the degree. A total of 6 s.h. may be taken on an A-F graded basis at the discretion of the advisor.