

# Civil and Environmental Engineering

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The Civil and Environmental Engineering Department offers graduate study leading to degrees of Master of Science in Civil Engineering and Doctor of Philosophy in Engineering with a Civil Engineering concentration. Both the M.S. and Ph.D. are available via BCoE Learning (online). Major areas of study are:

- construction engineering and management,
- construction materials engineering,
- environmental engineering,
- geotechnical engineering,
- structural engineering,
- transportation engineering, and
- water resources engineering.

The Kelly Gene Cook, Sr. Civil and Environmental Engineering Laboratories include research capabilities in the areas of:

- construction materials evaluation,
- environmental analysis of water and soils,
- structural systems analysis,
- geotechnical materials evaluation,
- structural systems analysis,
- transportation system modeling, and
- water resources characterization.

Space is also available for bench-scale and pilot-scale experimentation. Graduate assistantships are supported through sponsored research, instructional support and teaching assignments, and other departmental resources when available from the University, the Bagley College of Engineering, and the Department.

For information about the graduate program contact: Graduate Coordinator (p. 1) .

## Admission Criteria

Prerequisites for regular admission to the Civil Engineering graduate program include all of the general requirements of the Office of the Graduate School. The minimum GPA for acceptance into the Civil and Environmental Engineering graduate program is 3.00 on a 4.00 scale as computed for courses that comprise the last two academic years of the degree. Graduates of programs not accredited by the Engineering Accreditation Commission of ABET ([www.ABET.org](http://www.abet.org) (<http://www.abet.org>)) must submit acceptable GRE scores (verbal and quantitative). International students are required to have a minimum Test of English as a Foreign Language (TOEFL) score of 550 PBT (213 CBT or 79 iBT) or an International English Language Testing Systems (IELTS) score of 6.5. Students must possess core competency in the sub-discipline in which they will focus their graduate studies. Applicants who do not meet the requirements for regular admission may be considered for contingent or provisional admission at the discretion of the department.

## Contingent Admission

Applicants meeting University requirements for admission but failing to meet the Department's requirements for regular admission may be considered for contingent admission. An applicant with a bachelor's degree major other than civil and environmental engineering may be required to take remedial courses to prepare for graduate studies. Undergraduate remedial courses will be taken for no credit and a grade of B or better is required. To be removed from contingent status, the student must successfully complete remedial prerequisite courses as defined by the graduate committee with a grade of B or higher on each course.

## Provisional Admission

A student accepted with a GPA of 2.70, or greater, of a 4.00 scale on the last two academic years of the program may be admitted with provisional status. In such case, the student must achieve a minimum 3.00 GPA for the first 9 hours of graduate coursework. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement.

## Academic Performance

A student in the Civil Engineering graduate program is expected to maintain a combination of grades, grade point average, and satisfactory performance. A student may be dismissed from the program for grades of U, D, F, or two grades below B. Failure to maintain a 3.00 grade point average after admission to the program is also basis for dismissal. Dismissal may occur if a student fails to meet satisfactory performance requirements, such as research progress, satisfactory results of written or oral examinations, and thesis or dissertation or research defense. The student will be advised in writing of their dismissal and justification for the action in a written letter of notification. To appeal a dismissal from the department's graduate program, the student must submit within thirty days of the date of the letter of notification a written petition for reconsideration memorandum to the department's graduate coordinator providing justification as to why the dismissal should be reversed.

## Master of Science in Civil Engineering - Thesis

|   |           |
|---|-----------|
| 7000-, 8000-, and/or 9000-level coursework  | 12        |
| Additional graduate coursework  | 12        |
| CE 8000                      Thesis Research/ Thesis in Civil & Environmental Engineering | 6         |
| <b>Total Hours</b>  | <b>30</b> |

The student, in coordination with his or her graduate committee, must develop a program of study which may include courses from other engineering disciplines, mathematics, the physical sciences, and business administration. Specifically, the program of study must include:

- minimum 15 hours of coursework in engineering;
- minimum 12 hours of coursework in the department with at least 9 hours at the upper graduate level;
- a minimum of half the coursework on the program of study at the 8000 level or above; and
- all graduate core curriculum requirements within the student's sub-discipline.

The program of study is also limited to:

- a maximum of 6 hours of coursework in business management;
- a maximum of 6 hours of CE 7000 as part of the minimum 24 hours of coursework;
- a maximum of 9 hours of graduate coursework received as an unclassified graduate student; and
- a maximum of 9 hours of graduate credit transferred from other institutions.

Students are expected to receive grades of B or better in each course used to satisfy the minimum graduate credit coursework requirement.

## Master of Science in Civil Engineering - Non-Thesis

|   |           |
|---|-----------|
| 7000-, 8000-, and/or 9000-level coursework  | 15        |
| Additional graduate coursework  | 12        |
| CE 7000                      Directed Individual Study in Civil & Environmental Engineering | 6         |
| <b>Total Hours</b>  | <b>33</b> |

The student, in coordination with his or her graduate committee, must develop a program of study which may include courses from other engineering disciplines, mathematics, the physical sciences and business administration. Specifically, the program of study must include:

- a minimum of 18 hours of coursework in the department with at least 12 hours at the upper graduate level;
- a minimum of 15 hours of coursework on the program of study at the 8000 level or above; and
- all graduate core curriculum requirements within the student's sub-discipline.

The program of study is also limited to:

- a maximum of 6 hours of coursework in business management;
- a maximum of 6 hours of CE 7000 as part of the minimum 33 hours of coursework;
- a maximum of 9 hours of graduate coursework received as an unclassified graduate student; and
- a maximum of 9 hours of graduate credit transferred from other institutions.

Students are expected to receive grades of B or better in each course used to satisfy the minimum graduate credit coursework requirements.

## **Doctor of Philosophy in Engineering with Civil Engineering Concentration**

Doctoral students must complete a minimum of the equivalent of three academic years of applicable coursework beyond the bachelor's degree (interpreted as 75 credit hours beyond a bachelor's degree or 45 hours beyond a master's degree). A minimum of 20 hours of dissertation research is included. The doctoral student will be required to conduct research on an approved topic and prepare and successfully defend a dissertation.