CIVIL AND ENVIRONMENTAL ENGINEERING: RESEARCH, MS

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW–Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

**Requirement Detail**

- **Minimum Credit Requirement:** 30 credits
- **Minimum Residence Credit Requirement:** 16 credits
- **Minimum Graduate Coursework Requirement:** 15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/UW-1244/.

**Overall Requirements**

- 3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203/.
- Other Grade Requirements:
  - Assessments and Examinations:
    - Pathway A—Thesis: A faculty committee will conduct a final examination on the thesis research.
    - Pathway B—Independent Study: A faculty committee will review and approve the final report. A final examination is not required but may be requested by the faculty committee.

- Language Requirements:
  - No language requirements.

**REQUIRED COURSES**

**Pathway A—Thesis**

Students who wish to do advanced work and research in a well-defined area of specialization are encouraged to pursue this program.

This option requires a minimum of 30 credits of graduate work including:

- **Code**
  - Graduate Level Coursework (numbered 300 and higher with the Grad 50% attribute) 18 credits
  - Seminar 1 credit
  - Research or Thesis 6 credits
  - Additional Coursework 5 credits

**Total Credits** 30

1 These pathways are internal to the program and represent different curricular paths a student can follow to earn this degree. Pathway names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

2 Some courses numbered 300 or above may require special faculty approval.

**Pathway B—Advanced Independent Study**

This pathway requires a minimum of 30 credits of graduate work including:

- **Code**
  - Graduate Level Coursework (numbered 300 and higher with the Grad 50% attribute) 21 credits

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At least 9 of the 21 credits must be in Civil and Environmental Engineering. This may include the seminar course with approval from the advisor. May not include independent study or research courses. ¹

**Seminar**

- Discuss seminar options with faculty advisor. See options below.

**Research or Thesis**

A required written report based on the student’s advanced independent study project does not have to meet UW-Madison Graduate School requirements for a thesis, but has to show independent thinking by the student. A faculty committee will review and approve the final report. A final examination is not required but may be requested by the faculty committee.

**Additional Coursework**

In consultation with advisor, complete coursework to reach the minimum of 30 credit requirement.

**Total Credits**

- 30

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**Pathway C—Master’s (for Students without Engineering Bachelor’s Degrees)**

This program is designed for students without an engineering bachelor’s degree. Prior to beginning the program, the student will meet with their faculty advisor to determine the courses and total credits required to fulfill the deficiency requirements. Generally, a student with more than 12 credits in deficiencies is not admitted to the program. Rather, they are encouraged to enroll as a University Special student until most of their deficiencies are satisfied. Some deficiency course requirements may be completed after admission. The exact number of deficiency courses and credits completed before and after admission will be determined by the faculty advisor. All prerequisite courses must be taken for a letter grade. In addition to the total deficiency credit requirement, Pathway C requires a minimum of 30 credits of graduate work. Students can select either Thesis Pathway A or Advanced Independent Study Pathway B, consistent with the requirements described above, to complete the non-deficiency requirements of Pathway C. Students should meet with their faculty advisor to determine which pathway is most appropriate for their degree plan. Deficiency credits cannot satisfy the minimum credit requirement.

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