CIVIL AND ENVIRONMENTAL ENGINEERING: RESEARCH, M.S.

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 are able to complete a program with minimal disruptions to careers and other commitments.
- **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

**Requirements Detail**

- **Minimum Credit Requirement**: 30 credits
- **Minimum Residence Credit Requirement**: 16 credits
- **Minimum Graduate Coursework Requirement**: At least 50% of credits applied toward the graduate degree credit requirement must be completed in graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide.
- **Overall Graduate GPA Requirement**: 3.00 GPA required.

Other Grade Requirements

The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.

Assessments and Examinations

- Contact the program for information on required assessments and examinations.

Language Requirements

- Contact the program for information on any language requirements.

REQUIRED COURSES

**Track A—Thesis Track**

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:

- A minimum of 18 credits graduate-level coursework (300-level and higher); at least 9 of the 18 credits must be in Civil and Environmental Engineering (may include the seminar course with approval from the faculty advisor; may not include CIV ENGR 790) Some 300-level courses may require special faculty approval.
- A minimum of one-credit seminar course (Discuss seminar options with faculty advisor.)
- A minimum of 6 credits of CIV ENGR 790 Master’s Research or Thesis A faculty committee will conduct a final examination on the thesis research.

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

**Track B—Advanced Independent Study Track**

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

- A minimum of 21 credits graduate-level coursework (300 level and higher); at least 9 of the 21 credits must be in Civil and Environmental Engineering (may include the seminar course with approval from the advisor; may not include independent study or research courses) Some 300-level courses may require special faculty approval.
- A minimum of one-credit seminar course. (Discuss seminar options with faculty advisor.)
- A minimum of 3 credits of CIV ENGR 790 Master’s 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.

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

This program is designed for students without engineering bachelor’s degrees. Students will meet with their faculty advisor to determine the courses and total credits required to fulfill the deficiency requirements. As a general rule, students with more than 12 credits in deficiencies are
not admitted to the program. Rather, they are encouraged to enroll as special students until more of their deficiencies are satisfied. Some of the 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, Track C requires a minimum of 30 credits of graduate work. Students can select either a Thesis Track or Advanced Independent Study Track, consistent with the requirements of Track A or Track B described above, to complete the non-deficiency requirements of Track C. Students should meet with their faculty advisor to determine which track is most appropriate for their degree plan. Deficiency credits cannot be applied to fulfill the 30 credit degree requirement.

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### Seminar Course Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENGR 579</td>
<td>Seminar-Transportation Engineering</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENGR/ENVIR ST/</td>
<td>Water Resources Management</td>
<td>1</td>
</tr>
<tr>
<td>URB R PL 717</td>
<td>Practicum Planning Seminar I</td>
<td></td>
</tr>
<tr>
<td>CIV ENGR/ENVIR ST/</td>
<td>Water Resources Management</td>
<td>2</td>
</tr>
<tr>
<td>URB R PL 718</td>
<td>Practicum Planning Seminar II</td>
<td></td>
</tr>
<tr>
<td>CIV ENGR 909</td>
<td>Graduate Seminar - Environmental Chemistry &amp; Technology</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENGR/ATM OCN/BOTANY/ENVIR ST/GEOSCI/ZOOLOGY 911</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>CIV ENGR 919</td>
<td>Seminar-Hydraulic Engineering and Fluid Mechanics</td>
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</tr>
<tr>
<td>CIV ENGR 929</td>
<td>Seminar-Environmental Engineering</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENGR 939</td>
<td>Geotechnical Engineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENGR 949</td>
<td>Seminar-Structural Engineering</td>
<td>1</td>
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