Program Change Request

Date Submitted: 02/25/20 4:22 pm

Viewing: CEM : Construction Engineering and Management

Parent Plan: MA: Civil & Environmental Engr MS

Last approved: 05/01/19 2:12 pm

Last edit: 03/26/20 11:54 am

Changes proposed by: kbourassa

Catalog Pages Using this Program

Civil and Environmental Engineering; Construction Engineering and Management, M.S.

Name of the school or college academic planner who you consulted with on this proposal.

Name

Sara Hagen - EGR

Proposal Abstract/Summary:

The Department of Civil and Environmental Engineering currently has six individual named option M.S. programs in the areas of Construction Engineering and Management, Environmental Science and Engineering, Geological/Geotechnical Engineering, Structural Engineering, Transportation Engineering, and Water Resources. We are proposing to restructure the six coursework-only M.S. programs into a single named option M.S., which will be called “Professional.” This proposal is contingent on the approval of the new Named option for M.S. in Civil and Environmental Engineering: Professional.

Delete CIV ENGR 592 - discontinued course
3/20/20 - grievance policy added

If approved, what term should the proposed change be effective?

Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.

No
Basic Information

Program State: Suspend, will be discontinued Active
Type of Program: Named Option
Parent Program: MAJ: Civil & Environmental Engr MS
Parent Audience: Graduate or professional
Parent Home Department: Civil and Environmental Engr (CIV EN EGR)
School/College: College of Engineering

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?

No

Parent is in the Graduate School: Yes

SIS Code: CEM
SIS Description: Construction Engr & Mgmt
Transcript Title: Construction Engineering and Management
Named Options: CEM: Construction Engr & Mgmt
ESE: Environmental Science and Engr
GGE: Geological/Geotechnical Engr
STE: Structural Engineering
TE: Transportation Engineering
WRE: Water Resources Engineering
Sub Plan 1083: No Title Found
Sub Plan 1134: No Title Found

Does the parent program offer this as an additional major as well? No

Suspension and Discontinuation

What is the last term that a student could declare this program? Summer 2021 (1216)
What is the last term that students may be enrolled in or complete the program? Summer 2022 (1226)
What is the timeline and advance communication plan?

The last cohort of students in this program will enroll in Fall 2020. At the same time, we will begin accepting admissions for the restructured program, with the first enrollment in Fall 2021.

Explain the precipitating circumstances or rationale for the proposal.

The Department of Civil and Environmental Engineering is concurrently proposing to create a new Professional Named Option M.S. program that will replace the six Named Option M.S. programs. Each of the current six programs will be a path that students can choose within the new Professional M.S.

What is the potential impact on enrolled students?

The potential impact on enrolled students is expected to be minimal. This program is designed to be completed within one-year, which means that students currently in the program (or that enroll in Fall 2020) will graduate before the program is discontinued.

What is the potential impact on faculty and staff?

The impact on faculty and staff will also be minimal. The major difference between the
The impact of faculty and staff will also be minimal. The major difference between the current program and restructured program is the name on the degree. Administering and advising students will be largely similar, so most faculty will not notice a change due to the proposed restructuring.

Explain and provide evidence of efforts made to confer with and to notify faculty and staff.

The restructured M.S. program was discussed at Operations Committee meetings and at full departmental faculty meetings multiple times throughout the fall 2019 semester. Most notably, the full department voted to proceed with new program proposal and discontinuation of the current six named options at our November faculty meeting.

Explain and provide evidence of efforts made to confer with and to notify current students.

This one-year program will be replaced by a restructured M.S. program with a very similar curriculum. Students that follow the one-year timeline will not be impacted by the change. We will work with students admitted in Fall 2020 who do not graduate within one year individually. Students in this situation will be contacted by email to set up a meeting with Cheryl Loschko (our graduate student coordinator) and their faculty advisor to develop an individual plan for completing their degree.

Explain and provide evidence of efforts made to confer with and to notify alumni and other stakeholders.

We presented the restructured M.S. degree plans to the department's visiting committee during their visit to campus in fall 2019.

Teach-out plan - How will program quality be maintained during the suspended period or the teach-out period for discontinued programs?

The course offerings will not be altered. The same courses are also available to Ph.D. students, traditional (research) M.S students, and students in the proposed, restructured professional M.S. program.

Teach-out plan: A) For currently enrolled students, how will required courses, curricular elements, advising and other student services be provided?

Required courses, curricular elements, and advising will be very similar in the restructured program compared to this current named option. The courses and advising will still be provided both to students finishing this program and to students who enroll in the restructured program.

Teach-out plan: B) For prospective students in the admissions pipeline, how are any commitments being met or needs to notify them that their program of interest will not be available?

According to our proposed timeline, there will not be any students applying for admission to this program after the Fall 2019 application window.

Teach-out plan: C) For stopped out students, what provisions are made for their re-entry? What program(s) will they be re-entered into?

Students will be re-entered into M.S. in Civil and Environmental Engineering: Professional.

Teach-out plan: D) Provide any other information relevant to teach-out planning.

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Likos, William</td>
<td><a href="mailto:likos@wisc.edu">likos@wisc.edu</a></td>
<td>608/890-2662</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Remuca, Christina</td>
<td><a href="mailto:remuca@wisc.edu">remuca@wisc.edu</a></td>
<td>608/262-1820</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office Contact</td>
<td>Hagen, Sara</td>
<td><a href="mailto:skhagen@wisc.edu">skhagen@wisc.edu</a></td>
<td>608/263-8860</td>
<td></td>
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List the departments that have a vested interest in this proposal.

- Are all program reviews in the home academic unit up to date? Yes
- Are all assessment plans in the home academic unit up to date? Yes
- Are all assessment reports in the home academic unit up to date? Yes
Mode of Delivery: Face-to-Face (majority face-to-face courses)
Will this program be part of a consortial or collaborative arrangement with another college or university? No
Will instruction take place at a location geographically separate from UW-Madison? No
Parent has outside accreditation: No
Graduates of parent program seek licensure or certification after graduation: No

How does the named option relate to the major and to other named options in the major, if relevant?

Faculty and Staff Resources

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal.

Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? No change

Parent Plan Admissions/How To Get In Requirements

Students apply to the Master of Science in Civil and Environmental Engineering through one of the named options:

- Research
- Construction Engineering and Management
- Environmental Science and Engineering
- Geological/Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering

Guide Admissions/How to Get in tab

Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements of the Graduate School as well as the program(s).** Once you have researched the graduate program(s) you are interested in, [apply online](https://grad.wisc.edu/apply/requirements/#english-proficiency).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>December 15</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>This program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Not required.</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">https://grad.wisc.edu/apply/requirements/#english-proficiency</a>).</td>
</tr>
<tr>
<td>Other Test(s) (e.g., GMAT, MCAT)</td>
<td>n/a</td>
</tr>
<tr>
<td>Letter of Recommendation Required</td>
<td></td>
</tr>
</tbody>
</table>
Applicants must first meet all of the requirements of the Graduate School. Please visit this website for details.

Applicants must also meet department specific requirements as outlined below:

Have a bachelor’s degree in civil and environmental engineering from an ABET-accredited engineering program or from a recognized international institution

Submit a 1,000 word or fewer statement of purpose; include your technical areas of interest, coursework emphasis, research experience, professional goals, faculty members you are interested in working with, and any other items relevant to your qualifications for graduate school

Submit three letters of recommendation

Non-native English speakers must have a Test of English as a Foreign Language (TOEFL) with a score of 580 (written) or 92 (Internet version)

Please do not mail paper copies of application materials. Upload the required application materials to the electronic Graduate School application, including a PDF copy of the most current transcripts. Applicants who are recommended for admission by the CEE Admissions Committee, will receive an e-mail with further instructions from the CEE Graduate Admissions Office, requesting official transcripts or other required application material.

Applicants should monitor the application status by visiting the “Graduate Application Status” window within your MyUW portal (information on this is received after submitting an application). You may need to activate a NetID to gain access to the MyUW portal.

Graduate Application Status will remain “pending” until recommendations are determined. All applicants will receive an e-mail from the CEE Graduate Admissions Team with more details once the admission committees have made decisions.

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

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### CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>30 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit</td>
<td>16 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>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.</td>
</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>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.</td>
</tr>
<tr>
<td>Assessments and Examinations</td>
<td>n/a</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>n/a</td>
</tr>
</tbody>
</table>

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### Required Courses
Select a [Named Option](#) for courses required.

### Named Options

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. Students pursuing the Master of Science in Civil and Environmental Engineering must select one of the following named options:

- **Civil and Environmental Engineering: Construction Engineering and Management, M.S.**
- **Civil and Environmental Engineering: Environmental Science and Engineering, M.S.**
- **Civil and Environmental Engineering: Geological/Geotechnical Engineering, M.S.**
- **Civil and Environmental Engineering: Structural Engineering, M.S.**
- **Civil and Environmental Engineering: Transportation Engineering, M.S.**
- **Civil and Environmental Engineering: Water Resources Engineering, M.S.**

Guide Requirements tab

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/
Last Approved: Oct 25, 2018 11:29am

### Minimum Graduate School Requirements

Review the Graduate School minimum [academic progress and degree requirements](#), 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>
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</tr>
</tbody>
</table>

**Mode of Instruction Definitions**

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online:** These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a
partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program. **Accelerated:** These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

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<td>examinations.</td>
</tr>
<tr>
<td></td>
<td>Contact the program for information on any language requirements.</td>
</tr>
</tbody>
</table>

### REQUIRED COURSES

This is a face-to-face, accelerated program:

- 30 credit degree program
- Complete the program in one academic year (fall, spring, summer)
- Courses begin in fall semester only
- Take 15 credits from the approved list of Construction Engineering and Management courses (see below)
- 6 credits from a second discipline within the approved list of Civil and Environmental Engineering (CEE) specialization courses, based on your career interests
- 3 credits from a third discipline within the approved list of CEE specialization courses, based on your career interests
- 5 credits of independent study
- 1 credit in a graduate student seminar

**Typical Curriculum in this Program**

(Students and advisor will select specific courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall Semester (12 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV ENGR/BSE 491</td>
<td>Legal Aspects of Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 497</td>
<td>Mechanical Systems for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 498</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV-ENGR-592</td>
<td>Course-CIV-ENGR-592 Not Found</td>
<td></td>
</tr>
<tr>
<td>CIV ENGR 669</td>
<td>Special Topics in Construction Engineering and Management (Topic: Field Engineering Workshop-Civ Engr. section)</td>
<td>1-4</td>
</tr>
<tr>
<td>CIV ENGR 669</td>
<td>Special Topics in Construction Engineering and Management (Topic: Field Engineering Workshop-Electrical Engr. section)</td>
<td>1-4</td>
</tr>
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<td>CIV ENGR 669</td>
<td>Special Topics in Construction Engineering and Management (Topic: Field Engineering Workshop-Mechanical Engr. section)</td>
<td>1-4</td>
</tr>
<tr>
<td>Spring Semester (12 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV ENGR 492</td>
<td>Integrated Project Estimating and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 496</td>
<td>Electrical Systems for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 498</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 669</td>
<td>Special Topics in Construction Engineering and Management (Advanced Construction Systems)</td>
<td>1-4</td>
</tr>
<tr>
<td>CIV ENGR 669</td>
<td>Special Topics in Construction Engineering and Management (Topic: Graduate Student Seminar)</td>
<td>1-4</td>
</tr>
<tr>
<td>Summer Session (6 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV ENGR 498</td>
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CIV ENGR 669

Total credits required:

30

Parent Plan Graduate Policies

Students should refer to one of the named options for policy information:

Research
Construction Engineering and Management
Environmental Science and Engineering
Geological/Geotechnical Engineering
Structural Engineering
Transportation Engineering
Water Resources Engineering

Guide Graduate Policies tab

Approved Shared Content from /shared/graduate-school-policies/
Last Approved: Oct 25, 2018 11:30am

Graduate School Policies

The Graduate School's Academic Policies and Procedures provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

Named Option-Specific Policies Graduate Program Handbook The Graduate Program Handbook is the repository for all of the program's policies and requirements. Named Option-Specific Policies

Prior Coursework

Graduate Work from Other Institutions
With program approval, students are allowed to count credits of graduate coursework from other institutions. Approved credits will be allowed to count toward the minimum graduate degree credit requirement and the minimum graduate coursework requirement, but will not count toward the minimum graduate residence credit requirement. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

UW–Madison Undergraduate
With program approval, no more than 7 credits of coursework numbered 300 or higher from a UW–Madison undergraduate degree are allowed to count only toward the minimum graduate degree credit requirement. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

UW–Madison University Special
With program approval, students are allowed to count up to 15 credits of coursework numbered 300 or above taken as a UW–Madison special student toward the Minimum Graduate Residence Credit Requirement, and the Minimum Graduate Degree Credit Requirement; those courses numbered 700 or above may be applied toward the Minimum Graduate Coursework (50%) Requirement. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.
Program Change Request

Date Submitted: 02/25/20 4:24 pm

Viewing: **ESE : Environmental Science and Engineering**

Parent Plan: **MA: Civil & Environmental Engr MS**

Last approved: 05/01/19 2:13 pm

Last edit: 03/26/20 11:55 am

Changes proposed by: kbourassa

**Civil and Environmental Engineering; Environmental Science and Engineering, M.S.**

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Replace CIV ENGR 502 (discontinued) with CIV ENGR 631

3/20/20 - grievance policy added

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<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Likos, William</td>
<td><a href="mailto:likos@wisc.edu">likos@wisc.edu</a></td>
<td>608/890-2662</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Remucal, Christina</td>
<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
<td>608/262-1820</td>
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</tr>
<tr>
<td>Primary Dean’s Office Contact</td>
<td>Hagen, Sara</td>
<td><a href="mailto:skhagen@wisc.edu">skhagen@wisc.edu</a></td>
<td>608/263-8860</td>
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</tr>
<tr>
<td>Primary Contact</td>
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<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
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List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
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Mode of Delivery: Face-to-Face (majority face-to-face courses)
Will this program be part of a consortial or collaborative arrangement with another college or university? No
Will instruction take place at a location geographically separate from UW-Madison? No
Parent has outside accreditation: No
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How does the named option relate to the major and to other named options in the major, if relevant?

**Faculty and Staff Resources**

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal. Yes

**Curriculum and Requirements**

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? No change

Parent Plan Admissions/How To Get In Requirements

Students apply to the Master of Science in Civil and Environmental Engineering through one of the named options:

- Research
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Guide Admissions/How to Get In tab

Approved Shared Content from /shared/graduate-school-admissions/
**Last Approved: Oct 16, 2019 6:46pm**

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Applicants must first meet all of the requirements of the Graduate School. Please visit this website for details.

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Applicants must also meet department specific requirements as outlined below:

Have a bachelor's degree in civil and environmental engineering from an ABET-accredited engineering program or from a recognized international institution.

Submit a 1,000 word or fewer statement of purpose; include your technical areas of interest, coursework emphasis, research experience, professional goals, faculty members you are interested in working with, and any other items relevant to your qualifications for graduate school.

Submit three letters of recommendation.

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Parent Requirements

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/
Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

**CURRICULAR REQUIREMENTS**

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**Required Courses**

Select a Named Option for courses required.

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Named Options

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. Students pursuing the Master of Science in Civil and Environmental Engineering must select one of the following named options:

**Civil and Environmental Engineering: Construction Engineering and Management, M.S.**

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Guide Requirements tab

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Named Option Requirements

**MODE OF INSTRUCTION**

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<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
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<tr>
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<td>No</td>
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</tr>
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</table>

Mode of Instruction Definitions

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/

Last Approved: Oct 25, 2018 11:30am

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online:** These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

**Accelerated:** These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy
the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

**CURRICULAR REQUIREMENTS**

**University General Education Requirements**

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</tr>
<tr>
<td>Language Requirements</td>
<td>Contact the program for information on any language requirements.</td>
</tr>
</tbody>
</table>

**Required Courses**

This is a face to face, accelerated program:

30 credit degree program

Complete the program in one academic year (fall, spring, summer)

Courses begin in fall semester only

Take 18 credits from the approved list of specialized courses

Up to 6 credits of advanced study, 1-2 credits in a graduate student seminar, and up to 6 credits from a second discipline based on your career interests and faculty advisement

**Typical Curriculum in this Program**

Students typically take 12 credits in the fall semester, 12 credits in the spring semester, and 6 credits in the summer semester.

**Course Options**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENGR 410</td>
<td>Hydraulic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 411</td>
<td>Open Channel Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 412</td>
<td>Groundwater Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 414</td>
<td>Hydrologic Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 415</td>
<td>Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 416</td>
<td>Water Resources Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G LE 421</td>
<td>Environmental Sustainability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 423</td>
<td>Air Pollution Effects, Measurement and Control</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 426</td>
<td>Design of Wastewater Treatment Plants</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 427</td>
<td>Solid and Hazardous Waste Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 428</td>
<td>Water Treatment Plant Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 429</td>
<td>Environmental Systems Optimization</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 500</td>
<td>Water Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 501</td>
<td>Water Analysis-Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 502</td>
<td>Course-CIV ENGR 502 Not Found</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 514</td>
<td>Coastal Engineering</td>
<td>2-3</td>
</tr>
<tr>
<td>CIV ENGR 515</td>
<td>Hydrodynamics for Water Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 522</td>
<td>Hazardous Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 618</td>
<td>Special Topics in Hydraulics and Fluid Mechanics</td>
<td>1-3</td>
</tr>
</tbody>
</table>
Total credits required: 30

Parent Plan Graduate Policies

Students should refer to one of the named options for policy information:

Research
Construction Engineering and Management
Environmental Science and Engineering
Geological/Geotechnical Engineering
Structural Engineering
Transportation Engineering
Water Resources Engineering

Guide Graduate Policies tab

Approved Shared Content from /shared/graduate-school-policies/
Last Approved: Oct 25, 2018 11:30am

Graduate School Policies

The Graduate School's Academic Policies and Procedures provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

Named Option-Specific Policies Graduate Program Handbook The Graduate Program Handbook is the repository for all of the program's policies and requirements Named Option-Specific Policies
Program Change Request

Date Submitted: 02/25/20 4:26 pm

**Viewing: GGE : Geological/Geotechnical Engineering**

Parent Plan: MA: Civil & Environmental Engr MS

Last approved: 05/01/19 2:14 pm

Last edit: 03/26/20 11:58 am

Changes proposed by: kbourassa

Catalog Pages Using this Program

**Civil and Environmental Engineering: Geological/Geotechnical Engineering, M.S.**

Name of the school or college academic planner who you consulted with on this proposal.

Proposal Abstract/Summary:

The Department of Civil and Environmental Engineering currently has six individual named option M.S. programs in the areas of Construction Engineering and Management, Environmental Science and Engineering, Geological/Geotechnical Engineering, Structural Engineering, Transportation Engineering, and Water Resources. We are proposing to restructure the six coursework-only M.S. programs into a single named option M.S., which will be called “Professional.” This proposal is contingent on the approval of the new Named option for M.S. in Civil and Environmental Engineering: Professional.

3/20/20 - grievance policy added

If approved, what term should the proposed change be effective?

Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.

No

Basic Information

Program Status: **Suspend, will be discontinued Action**

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Program Name: SUSPENDING WILL BE DISCONTINUOUS MAJOR

Type of Program: Named Option
Parent Program: MA: Civil & Environmental Engr MS
Parent Audience: Graduate or professional
Parent Home Department: Civil and Environmental Engr (CIV EN EGR)
Parent School/College: College of Engineering

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?

No
Parent is in the Graduate School: Yes

SIS Code: GGE
SIS Description: Geological/Geotechnical Engr
Transcript Title: Geological/Geotechnical Engineering

Named Options: CEM: Construction Engr & Mgmt
ESE: Environmental Science and Engr
GGE: Geological/Geotechnical Engr
STE: Structural Engineering
TE: Transportation Engineering
WRE: Water Resources Engineering
Sub Plan 1083: No Title Found
Sub Plan 1134: No Title Found

Does the parent program offer this as an additional major as well? No

Suspension and Discontinuation

What is the last term that a student could declare this program? Summer 2021 (1216)
What is the last term that students may be enrolled in or complete the program? Summer 2022 (1226)
What is the timeline and advance communication plan?
The last cohort of students in this program will enroll in Fall 2020. At the same time, we will begin accepting admissions for the restructured program, with the first enrollment in Fall 2021.

Explain the precipitating circumstances or rationale for the proposal.
The Department of Civil and Environmental Engineering is concurrently proposing to create a new Professional Named Option M.S. program that will replace the six Named Option M.S. programs. Each of the current six programs will be a path that students can choose within the new Professional M.S.

What is the potential impact on enrolled students?
The potential impact on enrolled students is expected to be minimal. This program is designed to be completed within one-year, which means that students currently in the program (or that enroll in Fall 2020) will graduate before the program is discontinued.

What is the potential impact on faculty and staff?
The impact on faculty and staff will also be minimal. The major difference between the current program and restructured program is the name on the degree. Administering and advising students will be largely similar, so most faculty will not notice a change due to the
proposed restructuring.

Explain and provide evidence of efforts made to confer with and to notify faculty and staff.

The restructured M.S. program was discussed at Operations Committee meetings and at full departmental faculty meetings multiple times throughout the fall 2019 semester. Most notably, the full department voted to proceed with new program proposal and discontinuation of the current six named options at our November faculty meeting.

Explain and provide evidence of efforts made to confer with and to notify current students.

This one-year program will be replaced by a restructured M.S. program with a very similar curriculum. Students that follow the one-year timeline will not be impacted by the change. We will work with students admitted in Fall 2020 who do not graduate within one year individually. Students in this situation will be contacted by email to set up a meeting with Cheryl Loschko (our graduate student coordinator) and their faculty advisor to develop an individual plan for completing their degree.

Explain and provide evidence of efforts made to confer with and to notify alumni and other stakeholders.

We presented the restructured M.S. degree plans to the department’s visiting committee during their visit to campus in fall 2019.

Teach-out plan - How will program quality be maintained during the suspended period or the teach-out period for discontinued programs?

The course offerings will not be altered. The same courses are also available to Ph.D. students, traditional (research) M.S students, and students in the proposed, restructured professional M.S. program.

Teach-out plan: A) For currently enrolled students, how will required courses, curricular elements, advising and other student services be provided?

Required courses, curricular elements, and advising will be very similar in the restructured program compared to this current named option. The courses and advising will still be provided both to students finishing this program and to students who enroll in the restructured program.

Teach-out plan: B) For prospective students in the admissions pipeline, how are any commitments being met or needs to notify them that their program of interest will not be available?

According to our proposed timeline, there will not be any students applying for admission to this program after the Fall 2019 application window.

Teach-out plan: C) For stopped out students, what provisions are made for their re-entry? What program(s) will they be re-entered into?

Students will be re-entered into M.S. in Civil and Environmental Engineering: Professional.

Teach-out plan: D) Provide any other information relevant to teach-out planning.

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
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<tbody>
<tr>
<td>Department Chair</td>
<td>Ukos, William</td>
<td><a href="mailto:likos@wisc.edu">likos@wisc.edu</a></td>
<td>608/890-2662</td>
<td></td>
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<td>Faculty Director</td>
<td>Remucal, Christina</td>
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<tr>
<td>Primary Dean’s Office Contact</td>
<td>Hagen, Sara</td>
<td><a href="mailto:skhagen@wisc.edu">skhagen@wisc.edu</a></td>
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Will this program be part of a consortial or collaborative No
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Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal. Yes

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If you are proposing a change to the curriculum, what percentage of the curriculum is changing? No change

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Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

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### Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/

Last Approved: Oct 25, 2018 11:29am

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### Minimum Graduate School Requirements

Review the Graduate School minimum [academic progression and degree requirements](https://www.wisc.edu/grad-school/admissions/graduate-progression/), in addition to the program requirements listed below.

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### Major Requirements

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| Assessments and Examinations  | n/a                                                                    |
| Language Requirements        | n/a                                                                    |

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Named Option Requirements

**MODE OF INSTRUCTION**

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<tr>
<th>Mode of Instruction</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved Shared Content</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

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CURRICULAR REQUIREMENTS

University General Education Requirements

<table>
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<tbody>
<tr>
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<td></td>
</tr>
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<td>Language Requirements</td>
<td>Contact the program for information on any language requirements.</td>
</tr>
</tbody>
</table>

**Required COURSES**

Typical Curriculum in this program

Students typically take 12 credits in the fall semester, 12 credits in the spring semester, and 6 credits in the summer semester.

15 credits from the approved list of Geological/Geotechnical Engineering Specialization courses. Student and advisor will select specific courses:

Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>G LE 401</td>
<td>Special Topics in Geological Engineering</td>
<td>1-3</td>
</tr>
<tr>
<td>G L/E/GEOSCI/M S &amp; E 474</td>
<td>Rock Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G L E 530</td>
<td>Seepage and Slopes</td>
<td>3</td>
</tr>
<tr>
<td>G L/E/GEOSCI 594</td>
<td>Introduction to Applied Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>G L/E/GEOSCI 595</td>
<td>Field Methods in Applied and Engineering Geophysics</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENGR/G L E 635</td>
<td>Remediation Geotechnics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G L E 730</td>
<td>Engineering Properties of Soils</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G L E 732</td>
<td>Unsaturated Soil Geoengineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G L E 733</td>
<td>Physicochemical Basis of Soil Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G L E 735</td>
<td>Soil Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>G LE 757</td>
<td>Advanced Rock Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

6 credits from a second discipline within the approved list of Civil and Environmental Engineering specialization courses, based on your career interests.

3 credits from a third discipline within the approved list of CEE specialization courses, based on your career interests.

5 credits of G LE 699 Independent Study and 1 credit of G LE 900 Seminar

Total credits required:

30

Parent Plan Graduate Policies

Students should refer to one of the named options for policy information:

Research

Construction Engineering and Management

Environmental Science and Engineering

Geological/Geotechnical Engineering

Structural Engineering

Transportation Engineering

Water Resources Engineering

Guide Graduate Policies tab

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Approved Shared Content from /shared/graduate-school-policies/
Last Approved: Oct 25, 2018 11:30am

Graduate School Policies

The Graduate School’s Academic Policies and Procedures provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

Named Option-Specific Policies

Graduate Program Handbook

The Graduate Program Handbook is the repository for all of the program's policies and requirements. Named Option-Specific Policies

Prior Coursework

Graduate Work from Other Institutions

With program approval, students are allowed to count credits of graduate coursework from other institutions. Approved credits will be allowed to count toward the minimum graduate degree credit requirement and the minimum graduate coursework requirement, but will not count toward the minimum graduate residence credit requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

UW–Madison Undergraduate

With program approval, no more than 7 credits of coursework numbered 300 or higher from a UW–Madison undergraduate degree are allowed to count only toward the minimum graduate degree credit requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

UW–Madison University Special

With program approval, students are allowed to count up to 15 credits of coursework numbered 300 or above taken as a UW–Madison special student toward the Minimum Graduate Residence Credit Requirement, and the Minimum Graduate Degree Credit Requirement; those courses numbered 700 or above may be applied toward the Minimum Graduate Coursework (50%) Requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

Probation

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

ADVISOR / COMMITTEE

Every graduate student is required to have an advisor. To ensure that students are making satisfactory progress toward a degree, the Graduate School expects them to meet with their advisor on a regular basis.

In many cases, an advisor is assigned to incoming students. Students can be suspended from the Graduate School if they do not have an advisor. An advisor is a faculty member, or sometimes a committee, from the major department responsible for providing advice regarding graduate studies. A committee often accomplishes advising for the students in the early stages of their studies.

CREDITS PER TERM ALLOWED

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Program Change Request

Date Submitted: 02/25/20 4:26 pm

Viewing: STE : Structural Engineering

Parent Plan: MAI: Civil & Environmental Eng MS

Last approved: 05/07/19 2:40 pm

Last edit: 03/26/20 12:00 pm

Changes proposed by: kbourassa

Catalog Pages Using this Program

Civil and Environmental Engineering: Structural Engineering, M.S.

Name of the school or college academic planner who you consulted with on this proposal.

<table>
<thead>
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<tr>
<td>Sara Hagen - EGR</td>
</tr>
</tbody>
</table>

In Workflow

1. CIV EN EGR Dept. Approver
2. EGR College Admin Reviewer
3. EGR College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path

1. 02/26/20 11:59 am
   William Likos (likos): Approved for CIV EN EGR Dept. Approver
2. 03/09/20 4:48 pm
   Sara Hagen (shagen): Approved for EGR College Admin Reviewer
3. 03/24/20 10:42 am
   Sara Hagen (shagen): Approved for EGR College Approver
4. 03/26/20 11:47 am
   Karen Mittelstadt (mittelstadt): Approved for EGR College Approver
Proposal Abstract/Summary:
The Department of Civil and Environmental Engineering currently has six individual named option M.S. programs in the areas of Construction Engineering and Management, Environmental Science and Engineering, Geological/Geotechnical Engineering, Structural Engineering, Transportation Engineering, and Water Resources. We are proposing to restructure the six coursework-only M.S. programs into a single named option M.S., which will be called “Professional.” This proposal is contingent on the approval of the new Named option for M.S. in Civil and Environmental Engineering: Professional.
3/20/20 - Grievance policy added

If approved, what term should the proposed change be effective?
Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.
No

Basic Information

- **Program State:** Suspend, will be discontinued Active
- **Type of Program:** Named Option
- **Parent Program:** MAJ: Civil & Environmental Engr MS
- **Parent Audience:** Graduate or professional
- **Parent Home Department:** Civil and Environmental Engr (CIV EN EGR)
- **Parent School/College:** College of Engineering
No

Parent is in the Graduate School:
Yes

SIS Code: STE
SIS Description: Structural Engineering
Transcript Title: Structural Engineering
Named Options: CEM: Construction Engr & Mgmt
ESE: Environmental Science and Engr
GGE: Geological/Geotechnical Engr
STE: Structural Engineering
TE: Transportation Engineering
WRE: Water Resources Engineering
Sub Plan 1083: No Title Found
Sub Plan 1134: No Title Found

Does the parent program offer this as an additional major as well?
No

---

**Suspension and Discontinuation**

What is the last term that a student could declare this program? Summer 2021 (1216)

What is the last term that students may be enrolled in or complete the program? Summer 2022 (1226)

What is the timeline and advance communication plan?

The last cohort of students in this program will enroll in Fall 2020. At the same time, we will begin accepting admissions for the restructured program, with the first enrollment in Fall 2021.

Explain the precipitating circumstances or rationale for the proposal.

The Department of Civil and Environmental Engineering is concurrently proposing to create a new Professional Named Option M.S. program that will replace the six Named Option M.S. programs. Each of the current six programs will be a path that students can choose within the new Professional M.S.

What is the potential impact on enrolled students?

The potential impact on enrolled students is expected to be minimal. This program is designed to be completed within one-year, which means that students currently in the program (or that enroll in Fall 2020) will graduate before the program is discontinued.

What is the potential impact on faculty and staff?

The impact on faculty and staff will also be minimal. The major difference between the current program and restructured program is the name on the degree. Administering and advising students will be largely similar, so most faculty will not notice a change due to the proposed restructuring.

Explain and provide evidence of efforts made to confer with and to notify faculty and staff.

The restructured M.S. program was discussed at Operations Committee meetings and at full departmental faculty meetings multiple times throughout the fall 2019 semester. Most notably, the full department voted to proceed with new program proposal and discontinuation of the current six named options at our November faculty meeting.
This one-year program will be replaced by a restructured M.S. program with a very similar curriculum. Students that follow the one-year timeline will not be impacted by the change. We will work with students admitted in Fall 2020 who do not graduate within one year individually. Students in this situation will be contacted by email to set up a meeting with Cheryl Loschko (our graduate student coordinator) and their faculty advisor to develop an individual plan for completing their degree.

Explain and provide evidence of efforts made to confer with and to notify alumni and other stakeholders.

We presented the restructured M.S. degree plans to the department's visiting committee during their visit to campus in fall 2019.

Teach-out plan - How will program quality be maintained during the suspended period or the teach-out period for discontinued programs?

The course offerings will not be altered. The same courses are also available to Ph.D. students, traditional (research) M.S students, and students in the proposed, restructured professional M.S. program.

Teach-out plan: A) For currently enrolled students, how will required courses, curricular elements, advising and other student services be provided?

Required courses, curricular elements, and advising will be very similar in the restructured program compared to this current named option. The courses and advising will still be provided both to students finishing this program and to students who enroll in the restructured program.

Teach-out plan: B) For prospective students in the admissions pipeline, how are any commitments being met or needs to notify them that their program of interest will not be available?

According to our proposed timeline, there will not be any students applying for admission to this program after the Fall 2019 application window.

Teach-out plan: C) For stopped out students, what provisions are made for their re-entry? What program(s) will they be re-entered into?

Students will be re-entered into M.S. in Civil and Environmental Engineering: Professional.

Teach-out plan: D) Provide any other information relevant to teach-out planning.

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Likos, William</td>
<td><a href="mailto:likos@wisc.edu">likos@wisc.edu</a></td>
<td>608/890-2662</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Remucal, Christina</td>
<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
<td>608/262-1820</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office Contact</td>
<td>Hagen, Sara</td>
<td><a href="mailto:skhagen@wisc.edu">skhagen@wisc.edu</a></td>
<td>608/263-8860</td>
<td></td>
</tr>
<tr>
<td>Primary Contact</td>
<td>Remucal, Christina</td>
<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
<td>608/262-1820</td>
<td></td>
</tr>
</tbody>
</table>

List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
Are all assessment reports in the home academic unit up to date? Yes
Mode of Delivery: Face-to-Face (majority face-to-face courses)
Will this program be part of a consortial or collaborative arrangement with another college or university? No
UW-Madison?

Parent has outside accreditation: No

Graduates of parent program seek licensure or certification after graduation: No

How does the named option relate to the major and to other named options in the major, if relevant?

Faculty and Staff Resources

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal: Yes

Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? No change

Parent Plan Admissions/How To Get In Requirements

Students apply to the Master of Science in Civil and Environmental Engineering through one of the named options:

- Research
- Construction Engineering and Management
- Environmental Science and Engineering
- Geological/Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering

Guide Admissions/How to Get In tab

Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website. Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online.

Graduate Admissions Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>December 15</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>This program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Not required.</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/english-proficiency">https://grad.wisc.edu/apply/requirements/english-proficiency</a>).</td>
</tr>
</tbody>
</table>
Applicants must first meet all of the requirements of the Graduate School. Please visit this website for details. The application deadline is December 15 for the fall term.

Applicants must also meet department specific requirements as outlined below:

- Have a bachelor’s degree in civil and environmental engineering from an ABET-accredited engineering program or from a recognized international institution.
- Submit a 1,000 word or fewer statement of purpose; include your technical areas of interest, coursework emphasis, research experience, professional goals, faculty members you are interested in working with, and any other items relevant to your qualifications for graduate school.
- Submit three letters of recommendation.
- Non-native English speakers must have a Test of English as a Foreign Language (TOEFL) with a score of 580 (written) or 92 (Internet version).
- Please do not mail paper copies of application materials. Upload the required application materials to the electronic Graduate School application, including a PDF copy of the most current transcripts. Applicants who are recommended for admission by the CEE Admissions Committee, will receive an e-mail with further instructions from the CEE Graduate Admissions Office, requesting official transcripts or other required application material.

Applicants should monitor the application status by visiting the “Graduate Application Status” window within your MyUW portal (information on this is received after submitting an application). You may need to activate a NetID to gain access to the MyUW portal.

Graduate Application Status will remain “pending” until recommendations are determined. All applicants will receive an e-mail from the CEE Graduate Admissions Team with more details once the admission committees have made decisions.

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

Parent Requirements

<table>
<thead>
<tr>
<th>Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/</th>
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Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

**CURRICULAR REQUIREMENTS**

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<tr>
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<td>Requirement</td>
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https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
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 Language Requirements n/a n/a

Required Courses

Select a Named Option for courses required.

Named Options

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. Students pursuing the Master of Science in Civil and Environmental Engineering must select one of the following named options:

Civil and Environmental Engineering: Construction Engineering and Management, M.S.

Civil and Environmental Engineering: Environmental Science and Engineering, M.S.

Civil and Environmental Engineering: Geological/Geotechnical Engineering, M.S.

Civil and Environmental Engineering: Structural Engineering, M.S.

Civil and Environmental Engineering: Transportation Engineering, M.S.

Civil and Environmental Engineering: Water Resources Engineering, M.S.

Guide Requirements tab

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/ Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic, progress and degree requirements, in addition to the program requirements listed below.

Named Option Requirements

MODE OF INSTRUCTION
Mode of Instruction Definitions

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

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**Required COURSES**

Typical curriculum in this program: 12 credits in the fall semester, 12 credits in the spring semester, and 6 credits in the summer semester.

Complete a minimum of 27 credits from the approved list of Structural Engineering Courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENGR 498</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/GE 532</td>
<td>Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 649</td>
<td>Special Topics in Structural Engineering</td>
<td>1.3</td>
</tr>
<tr>
<td>CIV ENGR 744</td>
<td>Structural Dynamics and Earthquake Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 749</td>
<td>Special Topics in Structural Engineering</td>
<td>1.4</td>
</tr>
</tbody>
</table>
E M A 605  
Introduction to Finite Elements

Complete the following 3 courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENGR 440</td>
<td>Structural Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 545</td>
<td>Steel Structures II</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 547</td>
<td>Concrete Structures II</td>
<td>3</td>
</tr>
</tbody>
</table>

Take up to 3 credits of **CIV ENGR 999** Advanced Independent Study

Coursework plan must be coordinated and approved by your academic advisor

Total credits required:

30

Parent Plan Graduate Policies

Students should refer to one of the named options for policy information:

- Research
- Construction Engineering and Management
- Environmental Science and Engineering
- Geological/Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering
Program Change Request

Date Submitted: 02/25/20 4:27 pm

Viewing: TE : Transportation Engineering

Parent Plan: MAI: Civil & Environmental Engr M.S
Last approved: 05/08/19 8:40 am
Last edit: 03/26/20 12:01 pm

Changes proposed by: kbourassa

Catalog Pages Using this Program

Civil and Environmental Engineering: Transportation Engineering, M.S.

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Proposal Abstract/Summary:

The Department of Civil and Environmental Engineering currently has six individual named option M.S. programs in the areas of Construction Engineering and Management, Environmental Science and Engineering, Geologic/Geotechnical Engineering, Structural Engineering, Transportation Engineering, and Water Resources. We are proposing to restructure the six coursework-only M.S. programs into a single named option M.S., which will be called “Professional.” This proposal is contingent on the approval of the new Named option for M.S. in Civil and Environmental Engineering: Professional.

3/20/20 - grievance policy added

If approved, what term should the proposed change be effective?

Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.

No
Program State: **Suspend, will be discontinued Active**
Type of Program: Named Option
Parent Program: MA: Civil & Environmental Engr MS
Parent Audience: Graduate or professional
Parent Home Department: Civil and Environmental Engr (CIV EN EGR)
Parent School/College: College of Engineering

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?

No

Parent is in the Graduate School: Yes
SIS Code: **TE**
SIS Description: Transportation Engineering
Transcript Title: Transportation Engineering

Named Options:
- CEM: Construction Engr & Mgmt
- ESE: Environmental Science and Engr
- GGE: Geological/Geotechnical Engr
- STE: Structural Engineering
- TE: Transportation Engineering
- WRE: Water Resources Engineering

Sub Plan 1083: No Title Found
Sub Plan 1134: No Title Found

Does the parent program offer this as an additional major as well? No

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**Suspension and Discontinuation**

What is the last term that a student could declare this program? Summer 2021 (1216)
What is the last term that students may be enrolled in or complete the program? Summer 2022 (1226)
What is the timeline and advance communication plan?

The last cohort of students in this program will enroll in Fall 2020. At the same time, we will begin accepting admissions for the restructured program, with the first enrollment in Fall 2021.

Explain the precipitating circumstances or rationale for the proposal.

The Department of Civil and Environmental Engineering is concurrently proposing to create a new Professional Named Option M.S. program that will replace the six Named Option M.S. programs. Each of the current six programs will be a path that students can choose within the new Professional M.S.

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The potential impact on enrolled students is expected to be minimal. This program is designed to be completed within one-year, which means that students currently in the program (or that enroll in Fall 2020) will graduate before the program is discontinued.

What is the potential impact on faculty and staff?

The impact on faculty and staff will also be minimal. The major difference between the current program and restructured program is the name of the degree. Administrators and...
3/30/2020

Current program and restructured program is the same on the degree. Administering and advising students will be largely similar, so most faculty will not notice a change due to the proposed restructuring.

Explain and provide evidence of efforts made to confer with and to notify faculty and staff.

The restructured M.S. program was discussed at Operations Committee meetings and at full departmental faculty meetings multiple times throughout the fall 2019 semester. Most notably, the full department voted to proceed with new program proposal and discontinuation of the current six named options at our November faculty meeting.

Explain and provide evidence of efforts made to confer with and to notify current students.

This one-year program will be replaced by a restructured M.S. program with a very similar curriculum. Students that follow the one-year timeline will not be impacted by the change. We will work with students admitted in Fall 2020 who do not graduate within one year individually. Students in this situation will be contacted by email to set up a meeting with Cheryl Loschko (our graduate student coordinator) and their faculty advisor to develop an individual plan for completing their degree.

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We presented the restructured M.S. degree plans to the department's visiting committee during their visit to campus in fall 2019.

Teach-out plan - How will program quality be maintained during the suspended period or the teach-out period for discontinued programs?

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According to our proposed timeline, there will not be any students applying for admission to this program after the Fall 2019 application window.

Teach-out plan: C) For stopped out students, what provisions are made for their re-entry? What program(s) will they be re-entered into?

Students will be re-entered into M.S. in Civil and Environmental Engineering: Professional.

Teach-out plan: D) Provide any other information relevant to teach-out planning.

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Likos, William</td>
<td><a href="mailto:likos@wisc.edu">likos@wisc.edu</a></td>
<td>608/890-2662</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Remucal, Christina</td>
<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
<td>608/262-1820</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office</td>
<td>Hagen, Sara</td>
<td><a href="mailto:skhagen@wisc.edu">skhagen@wisc.edu</a></td>
<td>608/263-8860</td>
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</tr>
<tr>
<td>Primary Contact</td>
<td>Remucal, Christina</td>
<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
<td>608/262-1820</td>
<td></td>
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List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
Are all assessment reports in the home academic unit up to date? Yes

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
**3/30/2020**

**Mode of Delivery:**

- **Face-to-face (majority face-to-face courses)**

- Will this program be part of a consortial or collaborative arrangement with another college or university?  
  - No

- Will instruction take place at a location geographically separate from UW-Madison?  
  - No

- Parent has outside accreditation:  
  - No

- Graduates of parent program seek licensure or certification after graduation.  
  - No

**How does the named option relate to the major and to other named options in the major, if relevant?**

---

**Faculty and Staff Resources**

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal:  

- Yes

**Curriculum and Requirements**

If you are proposing a change to the curriculum, what percentage of the curriculum is changing?  

- No change

Parent Plan Admissions/How To Get In Requirements

Students apply to the Master of Science in Civil and Environmental Engineering through one of the named options:

- Research
- Construction Engineering and Management
- Environmental Science and Engineering
- Geological/Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering

Guide Admissions/How to Get In tab

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**Approved Shared Content from /shared/graduate-school-admissions/**

**Last Approved: Oct 16, 2019 6:46pm**

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements of the Graduate School as well as the program(s).** Once you have researched the graduate program(s) you are interested in, [apply online](https://grad.wisc.edu/apply/requirements/#english-proficiency).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>December 15</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>This program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Not required.</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">https://grad.wisc.edu/apply/requirements/#english-proficiency</a>).</td>
</tr>
<tr>
<td>Other Test(s) (e.g., GMAT, MCAT)</td>
<td>n/a</td>
</tr>
<tr>
<td>Letters of Recommendation Required</td>
<td>3</td>
</tr>
</tbody>
</table>
3/30/2020

Applicants must first meet all of the requirements of the Graduate School. Please visit the webpage for details. Application deadline is December 15 for the fall term.

Applicants must also meet department specific requirements as outlined below:

Have a bachelor’s degree in civil and environmental engineering from an ABET-accredited engineering program or from a recognized international institution

Submit a 1,000 word or fewer statement of purpose; include your technical areas of interest, coursework emphasis, research experience, professional goals, faculty members you are interested in working with, and any other items relevant to your qualifications for graduate school

Submit three letters of recommendation

Non-native English speakers must have a Test of English as a Foreign Language (TOEFL) with a score of 580 (written) or 92 (Internet version)

Please do not mail paper copies of application materials. Upload the required application materials to the electronic Graduate School application, including a PDF copy of the most current transcripts. Applicants who are recommended for admission by the CEE Admissions Committee, will receive an e-mail with further instructions from the CEE Graduate Admissions Office, requesting official transcripts or other required application material.

Applicants should monitor the application status by visiting the “Graduate Application Status” window within your MyUW portal (information on this is received after submitting an application). You may need to activate a NetID to gain access to the MyUW portal.

Graduate Application Status will remain “pending” until recommendations are determined. All applicants will receive an e-mail from the CEE Graduate Admissions Team with more details once the admission committees have made decisions.

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/

Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

**CURRICULAR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
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<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>30 credits</td>
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<tr>
<td>Minimum Residence Credit Requirement</td>
<td>16 credits</td>
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<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>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.</td>
</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>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.</td>
</tr>
</tbody>
</table>

| Assessments and Examinations | n/a                      |
| Language Requirements        | n/a                      |

Required Courses

Select a Named Option for courses required.
Named Options

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. Students pursuing the Master of Science in Civil and Environmental Engineering must select one of the following named options:

- **Civil and Environmental Engineering: Construction Engineering and Management, M.S.**
- **Civil and Environmental Engineering: Environmental Science and Engineering, M.S.**
- **Civil and Environmental Engineering: Geological/Geotechnical Engineering, M.S.**
- **Civil and Environmental Engineering: Structural Engineering, M.S.**
- **Civil and Environmental Engineering: Transportation Engineering, M.S.**
- **Civil and Environmental Engineering: Water Resources Engineering, M.S.**

Guide Requirements tab

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/
Last Approved: Oct 25, 2018 11:29am

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Named Option Requirements

**MODE OF INSTRUCTION**

<table>
<thead>
<tr>
<th>Mode of Instruction</th>
<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>
<td>Yes</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

**Evening/Weekend**: These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online**: These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid**: These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.
**CURRICULAR REQUIREMENTS**

University General Education Requirements

<table>
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</tr>
<tr>
<td>Assessments and Examinations</td>
<td>Contact the program for information on required assessments and examinations.</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>Contact the program for information on any language requirements.</td>
</tr>
</tbody>
</table>

**Required COURSES**

This is a face-to-face accelerated program:

Complete the program in one academic year (fall, spring, summer)

Take 15 credits from the approved list of Transportation Engineering Specialization courses

6 credits from a second discipline within the approved list of Civil and Environmental Engineering (CEE) specialization courses, based on your career interests

3 credits from a third discipline within the approved list of CEE specialization courses, based on your career interests

5 credits of independent study

1 credit in a graduate student seminar

Typical curriculum in this program: 12 credits fall semester, 12 credits spring semester, 6 credits summer semester. Courses are chosen with the assistance of a faculty advisor.

**Course Options**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CIV ENGR 570</td>
<td>Environmental Impact of Transportation Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 571</td>
<td>Urban Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 573</td>
<td>Geometric Design of Transport Facilities</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 574</td>
<td>Traffic Control</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 579</td>
<td>Seminar-Transportation Engineering</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENGR 679</td>
<td>Special Topics in Transportation and City Planning (Advanced Topics in Transportation Safety; Traffic Flow Theory; Advanced Modality; Technology Integration; CAV)</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/ PUB AFFR 694</td>
<td>Management of Civil Infrastructure Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 699</td>
<td>Independent Study</td>
<td>1-9</td>
</tr>
</tbody>
</table>

Total credits required: 30

Parent Plan Graduate Policies

Students should refer to one of the named options for policy information:

- Research

Construction Engineering and Management

Environmental Science and Engineering

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Approved Shared Content from /shared/graduate-school-policies/
Last Approved: Oct 25, 2018 11:30am

Graduate School Policies

The Graduate School’s Academic Policies and Procedures provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

Named Option-Specific Policies

Graduate Program Handbook

The Graduate Program Handbook is the repository for all of the program’s policies and requirements. Named Option-Specific Policies

Prior Coursework

Graduate Work from Other Institutions

With program approval, students are allowed to count credits of graduate coursework from other institutions. Approved credits will be allowed to count toward the minimum graduate degree credit requirement and the minimum graduate coursework requirement, but will not count toward the minimum graduate residence credit requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

UW–Madison Undergraduate

With program approval, no more than 7 credits of coursework numbered 300 or higher from a UW–Madison undergraduate degree are allowed to count only toward the minimum graduate degree credit requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

UW–Madison University Special

With program approval, students are allowed to count up to 15 credits of coursework numbered 300 or above taken as a UW–Madison special student toward the Minimum Graduate Residence Credit Requirement, and the Minimum Graduate Degree Credit Requirement; those courses numbered 700 or above may be applied toward the Minimum Graduate Coursework (50%) Requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

Probation

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

ADVISOR / COMMITTEE

Every graduate student is required to have an advisor. To ensure that students are making satisfactory progress toward a degree, the Graduate School expects them to meet with their advisor on a regular basis.
Program Change Request

Date Submitted: 02/25/20 4:28 pm

Viewing: WRE : Water Resources Engineering

Parent Plan: MAJ: Civil & Environmental Engr MS

Last approved: 05/08/19 8:42 am

Last edit: 03/26/20 12:03 pm

Changes proposed by: kbourassa

Catalog Pages Using this Program

Civil and Environmental Engineering: Water Resources Engineering, M.S.

Name of the school or college academic planner who you consulted with on this proposal.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sara Hagen - EGR</td>
</tr>
</tbody>
</table>

In Workflow
1. CIV EN EGR Dept. Approver
2. EGR College Admin Reviewer
3. EGR College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path
1. 02/26/20 11:59 am
   William Likos (likos): Approved for CIV EN EGR Dept. Approver
2. 03/09/20 4:48 pm
   Sara Hagen (shagen): Approved for EGR College Admin Reviewer
3. 03/24/20 10:42 am
   Sara Hagen (shagen): Approved for EGR College Approver
4. 03/26/20 11:47 am
   Karen Mittelstadt (mittelstadt): Approved for EGR College Approver
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3/20/20 - grievance policy added

If approved, what term should the proposed change be effective?
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### Basic Information

**Program State:** Suspend, will be discontinued Active

**Type of Program:** Named Option

**Parent Program:** MAJ: Civil & Environmental Engr MS

**Parent Audience:** Graduate or professional

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**Parent:** College of Engineering
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No

Parent is in the Graduate School: Yes

SIS Code: WRE

SIS Description: Water Resources Engineering

Transcript Title: Water Resources Engineering

Named Options: CEM: Construction Engr & Mgmt

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Students will be re-entered into M.S. in Civil and Environmental Engineering: Professional.

Teach-out plan: D) Provide any other information relevant to teach-out planning.

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

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<th>Name (Last, First)</th>
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<th>Title</th>
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<tr>
<td>Department Chair</td>
<td>Likos, William</td>
<td><a href="mailto:likos@wisc.edu">likos@wisc.edu</a></td>
<td>608/890-2662</td>
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<td>Faculty Director</td>
<td>Remucal, Christina</td>
<td><a href="mailto:remucal@wisc.edu">remucal@wisc.edu</a></td>
<td>608/262-1820</td>
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<tr>
<td>Primary Dean’s Office Contact</td>
<td>Hagen, Sara</td>
<td><a href="mailto:skhagen@wisc.edu">skhagen@wisc.edu</a></td>
<td>608/263-8860</td>
<td></td>
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<td>Primary Contact</td>
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List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
Are all assessment reports in the home academic unit up to date? Yes

Mode of Delivery: Face-to-Face (majority face-to-face courses)

Will this program be part of a consortial or collaborative effort? No
3/30/2020

Will instruction take place at a location geographically separate from UW-Madison? No
Parent has outside accreditation: No
Graduates of parent program seek licensure or certification after graduation. No

How does the named option relate to the major and to other named options in the major, if relevant?

Faculty and Staff Resources

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal. Yes

Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? Less than 30% of the curriculum will change

Parent Plan Admissions/How To Get In Requirements

Students apply to the Master of Science in Civil and Environmental Engineering through one of the named options:
Research
Construction Engineering and Management
Environmental Science and Engineering
Geological/Geotechnical Engineering
Structural Engineering
Transportation Engineering
Water Resources Engineering

Guide Admissions/How to Get In tab

Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online.

<table>
<thead>
<tr>
<th>Graduate Admissions Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements</td>
<td></td>
</tr>
<tr>
<td>Fall Deadline</td>
<td>December 15</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>This program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Not required.</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English as a second language is required to take the TOEFL. The acceptable TOEFL score is 90 (internet-based test) or 550 (paper-based test).</td>
</tr>
</tbody>
</table>
Other Test(s) (e.g., GMAT, MCAT) n/a
Letters of Recommendation Required 3

Applicants must first meet all of the requirements of the Graduate School. Please visit this website for details. The application deadline is December 15 for the fall term.

Applicants must also meet department specific requirements as outlined below:
Have a bachelor’s degree in civil and environmental engineering from an ABET-accredited engineering program or from a recognized international institution
Submit a 1,000 word or fewer statement of purpose; include your technical areas of interest, coursework emphasis, research experience, professional goals, faculty members you are interested in working with, and any other items relevant to your qualifications for graduate school
Submit three letters of recommendation
Non-native English speakers must have a Test of English as a Foreign Language (TOEFL) with a score of 580 (written) or 92 (Internet version)
Please do not mail paper copies of application materials. Upload the required application materials to the electronic Graduate School application, including a PDF copy of the most current transcripts. Applicants who are recommended for admission by the CEE Admissions Committee, will receive an e-mail with further instructions from the CEE Graduate Admissions Office, requesting official transcripts or other required application material.

Applicants should monitor the application status by visiting the “Graduate Application Status” window within your MyUW portal (information on this is received after submitting an application). You may need to activate a NetID to gain access to the MyUW portal.
Graduate Application Status will remain “pending” until recommendations are determined. All applicants will receive an e-mail from the CEE Graduate Admissions Team with more details once the admission committees have made decisions.

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

Parent Requirements

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/
Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>30 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>16 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>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</td>
</tr>
</tbody>
</table>

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
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.

<table>
<thead>
<tr>
<th>Assessments and Examinations</th>
<th>Language Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

**Required Courses**

Select a [Named Option](#) for courses required.

**Named Options**

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. Students pursuing the Master of Science in Civil and Environmental Engineering must select one of the following named options:

**Civil and Environmental Engineering: Construction Engineering and Management, M.S.**

**Civil and Environmental Engineering: Environmental Science and Engineering, M.S.**

**Civil and Environmental Engineering: Geological/Geotechnical Engineering, M.S.**

**Civil and Environmental Engineering: Structural Engineering, M.S.**

**Civil and Environmental Engineering: Transportation Engineering, M.S.**

**Civil and Environmental Engineering: Water Resources Engineering, M.S.**

**Guide Requirements tab**

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/

Last Approved: Oct 25, 2018 11:29am

**Minimum Graduate School Requirements**

Review the Graduate School minimum [academic progress and degree requirements](#), in addition to the program requirements listed below.

**Named Option Requirements**
Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online:** These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

**Accelerated:** These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed timeframe. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

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**CURRICULAR REQUIREMENTS**

**University General Education Requirements**

<table>
<thead>
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<tr>
<td>Minimum Residence Credit Requirement</td>
<td>16 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>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.</td>
</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Assessments and Examinations**

Contact the program for information on required assessments and examinations.

**Language Requirements**

Contact the program for information on any language requirements.

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**Required COURSES**

This is a face-to-face, accelerated program:

- 30 credit degree program
- Complete the program in one academic year (fall, spring, summer)
- Courses begin in fall semester only
- Take 18 credits from the approved list of specialized courses; up to 6 credits of advanced independent study; 1-2 credits in a graduate student seminar; and up to 6 credits from a second discipline based on your career interests and faculty advisement
- Typical curriculum in this program: 12 credits fall semester, 12 credits spring semester, 6 credits summer semester.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENGR 410</td>
<td>Hydraulic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 411</td>
<td>Open Channel Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 412</td>
<td>Groundwater Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 414</td>
<td>Hydrologic Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 415</td>
<td>Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 416</td>
<td>Water Resources Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR/G LE 421</td>
<td>Environmental Sustainability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 423</td>
<td>Air Pollution Effects, Measurement and Control</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 426</td>
<td>Design of Wastewater Treatment Plants</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 427</td>
<td>Solid and Hazardous Wastes Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 428</td>
<td>Water Treatment Plant Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 429</td>
<td>Environmental Systems Optimization</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 500</td>
<td>Water Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 501</td>
<td>Water Analysis-Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 502</td>
<td>Coastal Engineering</td>
<td>2-3</td>
</tr>
<tr>
<td>CIV ENGR 514</td>
<td>Hydroclimatology for Water Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 522</td>
<td>Hazardous Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENGR 618</td>
<td>Special Topics in Hydraulics and Fluid Mechanics</td>
<td>1-3</td>
</tr>
<tr>
<td>CIV ENGR 619</td>
<td>Special Topics in Hydrology</td>
<td>1-3</td>
</tr>
</tbody>
</table>