SOIL SCIENCE, M.S.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

MAJOR REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction Definitions</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</table>

CURRICULAR REQUIREMENTS

Requirements Detail

Minimum Credit Requirement | 30 credits
Minimum Residence Credit Requirement | 16 credits
Minimum Graduate Coursework Requirement | Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (https://registrar.wisc.edu/course-guide/).
Overall Graduate GPA Requirement | 3.00 GPA required.
Required courses in soil science must be completed with a grade of B or better (BC and C may not be offset by AB and A). For all other courses, the requirement is an average record of B or better in all work taken as a graduate student.

Assessments and Examinations

Students are expected to present a written research plan to their committee no later than the end of the third semester of M.S. graduate work.

Candidates must present an open seminar on their M.S. thesis research, and pass a comprehensive examination (either oral, or an oral–written combination if requested by the candidate) on the graduate work offered in support of their candidacy.

Deposit of the master’s thesis is required.

Language Requirements

No language requirements.

REQUISITE COURSES

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL SCI 301</td>
<td>General Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>SOIL SCI 325</td>
<td>Soils and Landscapes</td>
<td>3</td>
</tr>
<tr>
<td>SOIL SCI 728</td>
<td>Graduate Seminar ¹</td>
<td>1</td>
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<tr>
<td>At least one course from 3 of the following 5 subject areas:</td>
<td>9</td>
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<tr>
<td><strong>Soil Physics</strong></td>
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<tr>
<td>SOIL SCI 322</td>
<td>Physical Principles of Soil and Water Management</td>
<td></td>
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<tr>
<td>SOIL SCI/AGRonomy/ATM OCN 532</td>
<td>Environmental Biophysics</td>
<td></td>
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<tr>
<td>SOIL SCI 622</td>
<td>Soil Physics</td>
<td></td>
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<tr>
<td><strong>Soil Chemistry</strong></td>
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<tr>
<td>SOIL SCI 321</td>
<td>Soils and Environmental Chemistry</td>
<td></td>
</tr>
<tr>
<td>SOIL SCI 621</td>
<td>Soil Chemistry</td>
<td></td>
</tr>
<tr>
<td>SOIL SCI/BOTANY/HORT 626</td>
<td>Mineral Nutrition of Plants</td>
<td></td>
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<tr>
<td><strong>Soil Biology</strong></td>
<td></td>
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<tr>
<td>SOIL SCI/PL PATH 323</td>
<td>Soil Biology</td>
<td></td>
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<tr>
<td>SOIL SCI/MICROBIO 523</td>
<td>Soil Microbiology and Biochemistry</td>
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<tr>
<td>SOIL SCI/CIV ENGR 623</td>
<td>Microbiology of Waterborne Pathogens and Indicator Organisms</td>
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<tr>
<td><strong>Soil Fertility</strong></td>
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<tr>
<td>SOIL SCI/AGRonomy/HORT 326</td>
<td>Plant Nutrition Management</td>
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<tr>
<td><strong>Spatial Analysis</strong></td>
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<tr>
<td>SOIL SCI/ENVIR ST/LAND ARC 695</td>
<td>Applications of Geographic Information Systems in Natural Resources</td>
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<tr>
<td>GEOG/CIV ENGR/ENVIR ST 377</td>
<td>An Introduction to Geographic Information Systems</td>
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<tr>
<td>SOIL SCI 990</td>
<td>Research ²</td>
<td>1-12</td>
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<td>M.S. candidates must enroll in a minimum of 7 credits non-research soils and/or non-soils courses at the 500 level or higher. This should include 1 credit of SOIL SCI 728 (presentation semester).</td>
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Soil Science, M.S.

1. All M.S. candidates must present at least one SOIL SCI 728 for a letter grade \( \geq B \) or equivalent during M.S. program. Each candidate must enroll in SOIL SCI 728 every fall and spring semester; exceptions require the approval of the department chair.

2. M.S. candidates must enroll in a minimum of 1 credit of SOIL SCI 990 every semester.