Soil Science (MS)

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
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</tr>
<tr>
<td>SSC 601</td>
<td>Seminar</td>
<td>1</td>
<td>7-14</td>
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<tr>
<td>SSC 620</td>
<td>Special Problems</td>
<td>2</td>
<td></td>
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<tr>
<td>SSC 693</td>
<td>Master's Supervised Research</td>
<td>3</td>
<td></td>
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<tr>
<td>or SSC 695</td>
<td>Master's Thesis Research</td>
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<tr>
<td></td>
<td>Core Courses</td>
<td>4-7</td>
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<tr>
<td>SSC 511</td>
<td>Soil Physics</td>
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<tr>
<td>SSC 521</td>
<td>Soil Chemistry</td>
<td></td>
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<tr>
<td>SSC 532</td>
<td>Soil Microbiology</td>
<td></td>
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<tr>
<td>SSC 541</td>
<td>Soil Fertility</td>
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<tr>
<td>SSC 551</td>
<td>Soil Morphology, Genesis and Classification</td>
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<td>Undergraduate Courses</td>
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<tr>
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<td>400-Level undergraduate courses from outside soil science will be determined in conjunction with the academic committee</td>
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<tr>
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<td>Elective Courses</td>
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<td>&quot;Elective Courses&quot; will be determined in conjunction with the academic committee</td>
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<td></td>
<td>Total Hours</td>
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</table>

1. Students can take no more than two credits of SSC 601 Seminar total.
2. Students can take four to six credits of SSC 620 Special Problems.
3. Students are required to take a minimum of two credits and no more than six credits of SSC 693 Master's Supervised Research or SSC 695 Master's Thesis Research.
4. Students may have courses waived upon proving competency in the following coursework.
5. Students must take at least 18 hours of letter-graded course work – these must be NC State courses or inter-institutional courses (https://studentservices.ncsu.edu/your-classes/exchange-programs/inter-institutional-program/).

Additional Requirements
- Successful completion of a research problem
- Non-credit exit seminar
- Additional credit hours of seminar and research may be taken in addition to the required 30 credit hours to fulfill continuous registration requirements, but do not need to be listed on the POW

Faculty

Professors
- Aziz Amoozegar
  Area of Research: Environmental Soil Physics
- Stephen W. Broome
  Area of Research: Environmental Soil Science
- David A. Crouse
  Area of Research: Soil Science Education
- Owen W. Duckworth
  Area of Research: Soil Biogeochemistry
- Alan J. Franzluebbers
  Area of Research: Soil Ecology and Management
- John L. Havlin
  Area of Research: Soil Fertility
- Joshua L. Heitman
  Area of Research: Soil Physics & Hydrology
- Richard A. McLaughlin
  Area of Research: Urban Soil & Water Management
- Michael D. Mullen
  Area of Research: Soil Biology & Soil Science Education
- Deanna L. Osmond
  Area of Research: Soil Fertility & Watershed Management
- Wei Shi
  Area of Research: Soil Microbiology & Ecology
- Michael J. Vepraskas
  Area of Research: Wetland Soils & Pedology

Associate Professors
- Luciano C. Gatiboni
  Area of Research: Soil Fertility & Nutrient Management
- Alexandria K. Graves
  Area of Research: Soil Microbiology

Assistant Professors
- Kevin Garcia
  Area of Research: Plant-Microbe Interactions & Nutrient Transport
- Amy M. Johnson
  Area of Research: Soil Science
- Stephanie B. Kulesza
  Area of Research: Nutrient Management and Animal Waste
- Hui Li
  Area of Research: Environmental Soil Chemistry
- Ekrem Ozlu
Area of Research: Soil Management

Matthew C. Ricker

Area of Research: Pedology

Alex L. Woodley

Area of Research: Sustainable Agricultural Systems

Practice/Research/Teaching Professor

Robert E. Austin

Area of Research: Geospatial Information and Analytics in Soils, Agriculture and Environmental Science