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>SSC 601</td>
<td>Seminar</td>
<td>1</td>
<td>15-16</td>
</tr>
<tr>
<td>SSC 685</td>
<td>Master's Supervised Teaching</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

Select four of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSC 511</td>
<td>Soil Physics</td>
<td>4</td>
</tr>
<tr>
<td>SSC 521</td>
<td>Soil Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>SSC 532</td>
<td>Soil Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>SSC 541</td>
<td>Soil Fertility</td>
<td>3</td>
</tr>
<tr>
<td>SSC 551</td>
<td>Soil Morphology, Genesis and Classification</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses

“Elective Courses” will be determined in conjunction with the student’s advisory committee.  

Total Hours 30

1. Students can take no more than two credits of SSC 601 Seminar total.
2. MS students are required to serve as a TA in one section of the appropriate, assigned course for one credit.
3. Students may take no more than six credits of SSC 693 Master's Supervised Research or SSC 695 Master's Thesis Research.
4. 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/).
5. Not more than 6 credits of 400-level courses may be used in the MS degree and these cannot be SSC courses.

Additional Requirements

- Completion of at least 30 semester credit hours
- No more than 6 hours of 400-level courses outside of Soil Science may be used towards the degree
- Successful completion of a research problem and a completed Master’s Thesis
- Successful completion of the final oral examination
- Non-credit exit seminar

Faculty

Professors

- Aziz Amoozegar
  **Area of Research**: Environmental Soil Physics

- 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

- 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