Soil Science (MR)

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td>5-8</td>
</tr>
<tr>
<td>SSC 601</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SSC 620</td>
<td>Special Problems</td>
<td>2</td>
</tr>
<tr>
<td>Core Courses</td>
<td></td>
<td>4-7</td>
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<tr>
<td>SSC 511</td>
<td>Soil Physics</td>
<td></td>
</tr>
<tr>
<td>SSC 521</td>
<td>Soil Chemistry</td>
<td></td>
</tr>
<tr>
<td>SSC 532</td>
<td>Soil Microbiology</td>
<td></td>
</tr>
<tr>
<td>SSC 541</td>
<td>Soil Fertility</td>
<td></td>
</tr>
<tr>
<td>SSC 551</td>
<td>Soil Morphology, Genesis and Classification</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Courses</td>
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<td>6</td>
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<tr>
<td>400-Level undergraduate courses from outside soil science will be determined in conjunction with the academic committee</td>
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<tr>
<td>Elective Courses</td>
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<td>18</td>
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<tr>
<td>&quot;Elective Courses&quot; will be determined in conjunction with the academic committee</td>
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<tr>
<td>Total Hours</td>
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<td>36</td>
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</tbody>
</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 may have courses waived upon proving competency in the following coursework
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/).

Additional Requirements

All Masters students must demonstrate competence in four of the five sub-disciplines listed below, and Doctoral students must demonstrate competency in all five.

- Soil Chemistry
- Soil Fertility and Plant Nutrition
- Soil Genesis and Classification
- Soil Microbiology and Biochemistry
- Soil Physics

The required competencies can be achieved by any combination of the following:

1. relevant course work from previous undergraduate and/or graduate degree programs;
2. prior professional experience in the major sub-discipline(s); and
3. graduate courses included in the student's Plan of Work (POW) for their current degree program.

Faculty

Full Professors

Aziz Amoozegar
Stephen W. Broome
David A. Crouse
Owen W. Duckworth
Alan J. Franzlubbers
John L. Havlin
Joshua L. Heitman
Richard A. McLaughlin
Michael D. Mullen
Deanna L. Osmond
Wei Shi
Michael J. Vepraskas

Associate Professors

Alexandria K. Graves

Assistant Professors

Kevin Garcia
Terrence G. Gardner
Luciano C. Gatiboni
Amy M. Johnson
Stephanie B. Kulesza
Matthew C. Ricker
Alex L. Woodley

Emeritus Faculty

Stanley W. Buol
Keith Cassel
Maurice Cook
Fred Cox
Carl Crozier
George Cummings
J. Wendell Gilliam
Dean L. Hesterberg
Daniel Israel
Joseph Kleiss
David Lindbo
Gordon Miner
George C. Naderman Jr.
Wayne Robarge
Thomas J. Smyth
Richard Volk
Michael Wagger
Jeffrey G. White
Arthur Wollum

Practice/Research/Teaching Professors
Robert E. Austin