Soil Science (MS)

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td></td>
<td><strong>Required Courses</strong></td>
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<tr>
<td>SSC 601</td>
<td>Seminar 1</td>
<td>7-14</td>
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<tr>
<td>SSC 620</td>
<td>Special Problems 2</td>
<td>2</td>
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<tr>
<td>SSC 693</td>
<td>Master's Supervised Research 3</td>
<td>3</td>
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<tr>
<td>or SSC 695</td>
<td>Master's Thesis Research</td>
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Core Courses 4-7

Select four of the following courses:

- SSC 511 Soil Physics
- SSC 521 Soil Chemistry
- SSC 532 Soil Microbiology
- SSC 541 Soil Fertility
- SSC 551 Soil Morphology, Genesis and Classification

Undergraduate Courses 6

400-Level undergraduate courses from outside soil science will be determined in conjunction with the academic committee.

Elective Courses 18

"Elective Courses" will be determined in conjunction with the academic committee.

Total Hours 30

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

Full 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

Alexandria K. Graves
**Area of Research:** Soil Microbiology

Assistant Professors

Kevin Garcia
**Area of Research:** Plant-Microbe Interactions & Nutrient Transport

Terrence G. Gardner
**Area of Research:** Soil & Environmental Microbial Ecology

Luciano C. Gatiboni
**Area of Research:** Soil Fertility & Nutrient Management

Amy M. Johnson
**Area of Research:** Soil Science

Stephanie B. Kulesza
**Area of Research:** Nutrient Management and Animal Waste

Matthew C. Ricker
**Area of Research:** Pedology

Alex L. Woodley
Area of Research: Sustainable Agricultural Systems

Practice/Research/Teaching Professors
Robert E. Austin
Area of Research: Geospatial Information and Analytics in Soils, Agriculture and Environmental Science

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