Soil Science (MS)

Degree Requirements

Code	Title	Hours
Required Courses		**15-16**
SSC 601	Seminar [1]	
SSC 685	Master's Supervised Teaching [2]	
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	
Elective Courses		**14-15**
"Elective Courses" will be determined in conjunction with the student's advisory committee [3, 4, 5]		
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

Reid Longley

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