

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

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