

NRM Curriculum of Study
SOIL SCIENCE

Graduate Program: Natural Resources Management
Specialty Area (Option): Physical/Earth Resources Science
Participating Academic Unit: Soil Science
Contact: Dr. Francis Casey, 701-231-8577
 Email: francis.casey@ndsu.edu

Requirements

- **Background:** A baccalaureate degree having a major emphasis in agricultural, earth or physical sciences or biological sciences.
- **Coursework:** 30 semester units (minimum). Complete *Master's Degree Plan of Study and Supervisory Committee* form no later than the first week of second semester.
- **Research:** The thesis option is preferred. The paper option may be selected in consultation with the supervisory committee.
- **Oral Exam:** Student must be enrolled during the semester of the oral examination (usually the last semester.)
- **Additional:** Refer to the section titled *Degree Requirements Checklist* in these Guidelines (pages 5-6).

Required Units		Approved Courses/Disciplines*	Units	Approved Courses/Disciplines*	Units
Specialty Area	16 or more	ABEN 664 Resource Conservation and Irrigation Engr	3	SOIL 647 Microclimatology	3
		GEOL 612 Geomorphology	3	SOIL 680 Soils and Pollution	3
		GEOL 614 Hydrogeology	3	SOIL 755 Soil Chemistry	3
		GEOL 628 Geochemistry	3	SOIL 763 Advanced Soil Physics	2
		GEOL 650 Field Geology	3	SOIL 782 Advanced Soil Fertility	2
		SOIL 610 Soils and Land Use	3	SOIL 784 Advanced Soil Genesis, Morphology and Classification	2
		SOIL 644 Soil Genesis and Survey	4	Adviser-approved courses	
Supporting Area: Biological Resources Science	3	Botany/Biology/Zoology		Natural Resources Management	
		Entomology		Plant Sciences	
		Microbiology		Range Science	
Supporting Area: Social Sciences	3	ECON 681 Natural Resource Economics	3	ECS 770 Environmental Law and Policy	3
		NRM 631 NEPA and Environmental Impact Assessment	2	HIST 634 History of Environmental Science	3
		NRM 632 Environmental Impact Statement	2	SOC 631 Environmental Sociology	3
Resource Analysis	3	STAT 660 Applied Survey Sampling	3	STAT 662 Introduction to Experimental Design	3
		STAT 661 Applied Regression Models	3	Statistics courses (600-700 level)	
Research <i>Select paper or thesis</i>	2-4	NRM 797 Master's Paper			
	6-10	NRM 798 Master's Thesis			
Seminar	2	NRM 690 Graduate Seminar (required course)			

*Approved courses from the various disciplines are listed on pages 27-28.