

NRM Curriculum of Study  
**RANGE SCIENCES**

**Graduate Program:** Natural Resources Management  
**Specialty Area (Option):** Biotic Resources Science  
**Participating Academic Unit:** Range Sciences  
**Contact:** Dr. Carolyn Grygiel, 701-231-8180  
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**Requirements**

- **Background:** A baccalaureate degree in social science, agricultural economics, planning, geology, soil science 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.
- **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
<b>Specialty Area</b>	16 or more	BOT 762 Environment & Adaptation	3	RNG 765 Analysis of Ecosystems	3
		BOT 764 Ecological Processes	3	ZOO 656 Ornithology	3
		NRM 653 Rangeland Watershed Mgmt	3	ZOO 658 Mammalogy	3
		RNG 650 Range Plants	3	ZOO 662 Physiological Ecology	3
		RNG 652 GIS in Range Survey	3	ZOO 674 Fisheries Mgmt	3
		RNG 656 Range Habitat Management	3	ZOO 676 Wildlife Ecology & Mgmt	3
		RNG 660 Plant Ecology	3	ZOO 760 Evolutionary Ecology	3
		RNG 716 Agrostology	3	ZOO 770 Aquatic Community Ecology	4
		RNG 717 Aquatic Vascular Plants	2		
<b>Supporting Area:</b> Physical/Earth Resources Science	3	GEOL 612 Geomorphology	3	SOIL 610 Soils and Land Use	3
		GEOL 614 Hydrogeology	3	SOIL 644 Soil Genesis and Survey	3
		GEOL 613 Glacial Geology	3	SOIL 647 Microclimatology	3
		GEOL 640 Quaternary Biology	4	SOIL 784 Advanced Soil Genesis Morphology and Classification	3
		GEOG 655 Intro to Geographic Information Systems	3		
<b>Supporting Area:</b> 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
<b>Resource Analysis</b>	3	Statistics and Research Methods courses (600-700 level)			
<b>Research</b> <i>Select paper or thesis</i>	2-4	NRM 797 Master's Paper			
	6-10	NRM 798 Master's Thesis			
<b>Seminar</b>	2	NRM 690 Graduate Seminar (required course)			

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