

Natural Resources Management

Department Information

- **Department Location:**
School of Natural Resource Sciences, Hultz 202
- **Department Phone:**
701-231-5368
- **Department Web Site:**
www.ndsu.edu/snrs/ (<http://www.ndsu.edu/snrs/>)
- **Credential Offered:**
B.S., Minor
- **Official Program Curriculum:**
catalog.ndsu.edu/undergraduate/program-curriculum/natural-resources-management/ (<http://catalog.ndsu.edu/undergraduate/program-curriculum/natural-resources-management/>)

Sample Program Guide

Please note this is a sample program guide and not an official curriculum. Actual student schedules for each semester will vary depending on start year, education goals, applicable transfer credit, and course availability. Once admitted, students are encouraged to work with their assigned academic advisor on a regular basis to review degree progress.

First Year			
Fall	Credits	Spring	Credits
BIOL 150 & 150L		4 BIOL 151 & 151L	4
ENGL 110		3 ENGL 120	3
NRM 150		1 Hum. & Fine Arts Elective	3
NRM 225		3 MATH 103	3
RNG 136		3 Wellness Gen Ed	2
		14	15
Second Year			
Fall	Credits	Spring	Credits
CHEM 121 & 121L		4 EMGT, POLS, or SOC elective	3
COMM 110		3 SOIL 210	3
ECON 201		3 STAT 330	3
ENT 210		3 Emphasis Core or Elective Credits	6
RNG 213		3	
		16	15
Third Year			
Fall	Credits	Spring	Credits
ENGL 321, 324, or 459		3 NRM 421	3
PHIL 215 or 225		3 RNG 452 or GEOG 455	3
Emphasis Core or Elective Credits		9 Emphasis Core or Elective Credits	9
		15	15
Fourth Year			
Fall	Credits	Spring	Credits
Emphasis Core or Elective Credits		15 NRM 462, RNG 462, or SOIL 462	3

Emphasis Core or Elective Credits	12
15	15

Total Credits: 120

Natural Resources Management Emphasis Areas

Entomology

Code	Title	Credits
BIOL 364	General Ecology	3
BIOL 450	Invertebrate Zoology	3
BIOL 475	Conservation Biology	3
ENT 350	General Entomology	3
ENT 431	Principles of Insect Pest Management	3
ENT 470	Insect Ecology	3
PLSC 110	World Food Crops	3
RNG 450	Range Plants	3
or BIOL 461	Plant Ecology	
or PLSC 380	Principles of Plant Physiology	
Required 6 additional PLSC/SOIL elective credits		6
Required 15 additional elective credits		15
Total Credits		45

environmental sustainability, outreach, and policy

Code	Title	Credits
BIOL 364	General Ecology	3
ECON 481	Natural Resource Economics	3
HIST 434	Environmental History	3
or HIST 435	World Environmental History	
NRM 401	Urban-Ecosystem Management	3
NRM 420	Sustainable Scenarios in Natural Resources Management	3
NRM 431	National Environmental Policy Act & Environmental Impact Assessment	3
200-level or higher POLS, SOC, or EMGT		6
Required 26 additional elective credits		26
Total Credits		50

rangeland ecology

Code	Title	Credits
ANSC 114	Introduction to Animal Sciences	3
BIOL 364	General Ecology	3
BIOL 452	Ichthyology	3
or BIOL 454	Herpetology	
or BIOL 456	Ornithology	
or BIOL 458	Mammalogy	
BIOL 461	Plant Ecology	3
BIOL 475	Conservation Biology	3
or BIOL 476	Wildlife Ecology and Management	
NRM 431	National Environmental Policy Act & Environmental Impact Assessment	3
NRM 453	Rangeland Resources Watershed Management	3
or NRM 454	Wetland Resources Management	
PLSC 380	Principles of Plant Physiology	3
RNG 450	Range Plants	3
RNG 451	Ecology of Fire-Dependent Ecosystems	3

RNG 456	Ecological Restoration	3
RNG 458	Grazing Ecology	3
SOIL 217	Introduction to Meteorology & Climatology	3
SOIL 351	Soil Ecology	3
or SOIL 410	Soils and Land Use	
or SOIL 444	Soil Genesis and Survey	
Required 9 additional approved elective credits		9
Total Credits		51

rangeland livestock production

Code	Title	Credits
ANSC 114	Introduction to Animal Sciences	3
ANSC 220	Livestock Production	3
ANSC 223	Introduction to Animal Nutrition	2
ANSC 357	Animal Genetics	3
NRM 431	National Environmental Policy Act & Environmental Impact Assessment	3
PLSC 315	Genetics	3
PLSC 320	Principles of Forage Production	3
PLSC 323	Principles of Weed Science	3
RNG 450	Range Plants	3
RNG 456	Ecological Restoration	3
RNG 458	Grazing Ecology	3
SOIL 217	Introduction to Meteorology & Climatology	3
SOIL 351	Soil Ecology	3
or SOIL 410	Soils and Land Use	
or SOIL 444	Soil Genesis and Survey	
Required 9 additional approved elective credits		9
Total Credits		47

soil science

Code	Title	Credits
CHEM 240	Survey of Organic Chemistry	3
or BIOC 260	Elements of Biochemistry	
or MICR 202 & 202L	Introductory Microbiology and Introductory Microbiology Lab	
GEOL 105 & 105L	Physical Geology and Physical Geology Lab	4
MATH 105	Trigonometry	3
PHYS 211 & 211L	College Physics I and College Physics I Laboratory	4
PLSC 110	World Food Crops	3
PLSC 225	Principles of Crop Production (or 300/400 RNG Elective)	3
PLSC 380	Principles of Plant Physiology	3
SOIL 217	Introduction to Meteorology & Climatology	3
SOIL 322	Soil Fertility and Fertilizers	3
SOIL 351	Soil Ecology	3
SOIL 410	Soils and Land Use	3
SOIL 433	Soil Ecohydrology and Physics	3
SOIL 444	Soil Genesis and Survey	3
SOIL/NRM 454	Wetland Resources Management	3
Required 6 additional approved elective credits		6
Total Credits		50

water, habitat, and environmental management

Code	Title	Credits
BIOL 364	General Ecology	3
BIOL 475 or BIOL 476	Conservation Biology Wildlife Ecology and Management	3
ECON 481	Natural Resource Economics	3
HIST 434 or HIST 435	Environmental History World Environmental History	3
NRM 264	Natural Resource Management Systems	3
NRM 402 or NRM 454 or SOIL 410	River and Stream Resource Management Wetland Resources Management Soils and Land Use	3
NRM 431	National Environmental Policy Act & Environmental Impact Assessment	3
NRM 453	Rangeland Resources Watershed Management	3
Required 26 additional approved elective credits		26
Total Credits		50