

Range Science

Department Information

- **Department Location:**
Morrill Hall
- **Department Phone:**
701-231-7582
- **Department Web Site:**
www.ndsu.edu/range/
- **Credential Offered:**
B.S.
- **Plan Of Study Sample:**
bulletin.ndsu.edu/programs-study/undergraduate/range-science/#planofstudytex

Major Requirements

Major: Range Science

Degree Type: B.S.

Minimum Degree Credits to Graduate: 120

University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 36 credits presented for graduation must be in courses number 300 or higher.
6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
 - a. Of these 60, at least 36 must be NDSU residence credits as defined in #7.
 - b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
7. At least 36 credits must be NDSU resident credits. Residence credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (<http://bulletin.ndsu.edu/past-bulletin-archive/2019-20/academic-policies/undergraduate-policies/degree-and-graduation>) section of this Bulletin.

University General Education Requirements

Code	Title	Credits
Communication (C)		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing [†]		
Quantitative Reasoning (R) [†]		3
Science and Technology (S) [†]		10
Humanities and Fine Arts (A) [†]		6
Social and Behavioral Sciences (B) [†]		6
Wellness (W) [†]		2
Cultural Diversity (D) ^{*†}		
Global Perspectives (G) ^{*†}		
Total Credits		39

* May be satisfied by completing courses in another General Education category.

† General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

- A list of university approved general education courses and administrative policies are available here (<http://bulletin.ndsu.edu/past-bulletin-archive/2019-20/academic-policies/undergraduate-policies/general-education/#genedcoursestext>).

Major Requirements

Code	Title	Credits
Required Courses for Range Science		
AGRI 189	(or similar department course)	1
ANSC 114	Introduction to Animal Sciences	3
BIOL 461	Plant Ecology	3
RNG 136	Introduction to Range Management	3
RNG 213	Rangeland Sampling Techniques	3
RNG 450	Range Plants	3
RNG 451	Ecology of Fire-Dependent Ecosystems	3
RNG 452	Geographic Information Systems in Range Survey	3
RNG 453	Rangeland Resources Watershed Management	3
or RNG 454	Wetland Resources Management	
RNG 456	Range Habitat Management	3
RNG 458	Grazing Ecology	3
RNG 462	Natural Resource and Rangeland Planning	3
Other Required Courses		
BIOL 150 & 150L	General Biology I and General Biology I Laboratory	4
BIOL 151	General Biology II	3
BIOL 364	General Ecology	3
CHEM 121 & 121L	General Chemistry I and General Chemistry I Laboratory (May satisfy general education category S)	4
CHEM 122	General Chemistry II (May satisfy general education category S)	3
ECON 201	Principles of Microeconomics (May satisfy general education category B and G)	3
PLSC 380	Principles of Plant Physiology	3
Select one of the following: (May satisfy general education category C)		3
ENGL 321	Writing in the Technical Professions	
ENGL 324	Writing in the Sciences	
ENGL 459	Researching and Writing Grants and Proposal	
MATH 103	College Algebra (or higher level)	3
PLSC 315 & 315L	Genetics and Genetics Laboratory (May satisfy general education category S)	4
SOIL 210	Introduction to Soil Science	3
SOIL 217	Introduction to Meteorology & Climatology (May satisfy general education category S)	3
SOIL 351	Soil Ecology	3
or SOIL 410	Soils and Land Use	
SOIL 444	Soil Genesis and Survey	3
STAT 330	Introductory Statistics (May satisfy general education category R)	3
BIOL 475	Conservation Biology	3
or BIOL 476	Wildlife Ecology and Management	
Total Credits		82

Minor Requirements

Range Science Minor

Minor Requirements

Required Credits: 16

Code	Title	Credits
Required Courses		
RNG 136	Introduction to Range Management	3
RNG 225	Natural Resource & Agro-Ecosystems	3
RNG 450	Range Plants	3
Select one of the following:		3
RNG 452	Geographic Information Systems in Range Survey	
RNG 453	Rangeland Resources Watershed Management	
RNG 460	Plant Ecology	
RNG 456	Range Habitat Management	3
or RNG 458	Grazing Ecology	
Elective Course: Seminar may be used to fulfill this elective.		1
Total Credits		16

Minor Requirements and Notes:

- A minimum of 8 credits must be taken at NDSU.
- Students must earn a minimum 2.00 GPA for the minor requirements.