

# BIOLOGY, BACHELOR OF SCIENCE

Offered by Department of Biology (<http://catalog.unk.edu/undergraduate/departments-programs/biology/>)

Code	Title	Credit Hours
<b>General Studies Program</b>		
<i>Foundational Requirements (LOPERs 1-4)</i>		12
Including:		
LOPER 4: Mathematics, Statistics, and Quantitative Reasoning		
MATH 103	Plane Trigonometry <sup>1</sup>	
<i>Broad Knowledge Requirements (LOPERs 5-8)</i>		13
Including:		
LOPER 8: Natural Science		
BIOL 105	Biology I	
Dispositional Requirements: (LOPERs 9-10) <sup>2</sup>		6
Wellness (LOPER 11) Optional		0
<b>Program-Specified Requirements</b>		<b>4</b>
BIOL 106	Biology II	
<b>BS Science-related course requirements</b>		<b>8</b>
CHEM 160	General Chemistry	
CHEM 160L	General Chemistry Laboratory	
CHEM 161	General Chemistry	
CHEM 161L	General Chemistry Laboratory	
<b>Major Option</b>		
Complete all required courses		30
<b>Minor or 2nd Major</b>		
Complete all required courses <sup>3</sup>		24
<b>Unrestricted electives</b>		
Needed to reach 120 credit hour minimum		23
Total Credit Hours		120

A minimum 2.5 GPA is required in all courses counting toward this major.

## Major Option

Code	Title	Credit Hours
<b>Biology Option Core Requirements</b>		
BIOL 231	Research Methods I	3
BIOL 305	BioStatistics	3
BIOL 359	Evolution	3
BIOL 307	Ecology	3
BIOL 360	Genetics	4
Select 2 credit hours of the following:		2
BIOL 421	Seminar in Biology	
OR		
BIOL 431A	Research Methods IIA	
AND		
BIOL 431B	Research Methods IIB	

## Biology Option Required Electives <sup>4</sup>

<i>Field electives</i>		
Select 6 credit hours of the following:		6
BIOL 330	Wildlife Conservation	
BIOL 405	Range and Wildlife Management	
BIOL 406	Plant Ecology	
BIOL 418	Plant Taxonomy	
BIOL 435	Herpetology	
BIOL 462	Animal Behavior	
BIOL 470	Insect Biology	
BIOL 472	Ichthyology	
BIOL 473	Ornithology	
BIOL 474	Mammalogy	

<i>Laboratory electives</i>		
Select 6 credit hours of the following:		6
BIOL 211	Human Microbiology	
BIOL 215	Human Physiology	
BIOL 225	Anatomy and Physiology	
BIOL 226	Anatomy and Physiology	
BIOL 309	Cellular & Molecular Biology	
BIOL 401	Principles of Immunology	
BIOL 403	Plant Physiology	
BIOL 404	Developmental Biology	
BIOL 416	Plant Diversity and Evolution	
BIOL 440	Infectious Diseases	
BIOL 450	Advanced Molecular Biology	
BIOL 465	Physiology	

## Biology Option Supporting Course Requirements (0 hours Required)

Select one of the following:		
CHEM 250 & 250L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Lab	
or		
CHEM 360 & 360L & CHEM 361 & CHEM 361L	Organic Chemistry and Organic Chemistry Laboratory and Organic Chemistry and Organic Chemistry Laboratory	

Total Credit Hours 30

<sup>1</sup> The Biology degree requires a minimal mathematical competency at the level of trigonometry. Students with sufficient preparation may enter the mathematics program at a higher level, reducing the total credit hours needed. **See advisor for math placement.**

<sup>2</sup> Designated courses with the appropriate content may be approved to satisfy one of the Broad Knowledge requirements plus LOPER 9 or Broad Knowledge plus LOPER 10. Courses may be approved to satisfy LOPER 9 or LOPER 10 alone. (Courses satisfying LOPER 9 or LOPER 10 alone must be 3 credit hours.) Students applying this option will need to take additional hours in other categories to meet the required GS hours.

3

A minor or second major is required for a complete degree program. The number of required electives needed to reach 120 total credit hours overall will depend upon the specific program chosen.

4

Courses can only count in one area and no more than 2 credit hours of BIOL 421, BIOL 430, BIOL 456, BIOL 475, BIOL 482 can be used

This document represents a sample 4-year plan for degree completion with this major. Actual course selection and sequence may vary and should be discussed individually with your academic advisor. Advisors can also help you plan other experiences to enrich your undergraduate education such as internships, education abroad, undergraduate research, learning communities, and service learning and community-based learning.

Code	Title	Credit Hours
<b>Semester 1</b>		
BIOL 105	Biology I	4
CHEM 160	General Chemistry	3
CHEM 160L	General Chemistry Laboratory	1
LOPER 1: First-year Seminar		3
LOPER 2: Writing Skills		3
Total Credit Hours		14

Code	Title	Credit Hours
<b>Semester 2</b>		
BIOL 106	Biology II	4
CHEM 161	General Chemistry	3
CHEM 161L	General Chemistry Laboratory	1
LOPER 3: Oral Communication Skills		3
MATH 103	Plane Trigonometry	3
Total Credit Hours		14

Code	Title	Credit Hours
<b>Semester 3</b>		
BIOL 231	Research Methods I	3
BIOL 359	Evolution	3
CHEM 360	Organic Chemistry	4
CHEM 360L	Organic Chemistry Laboratory	1
Minor or 2nd Major Course		3
Total Credit Hours		14

Code	Title	Credit Hours
<b>Semester 4</b>		
BIOL 305	BioStatistics	3
CHEM 361	Organic Chemistry	4
CHEM 361L	Organic Chemistry Laboratory	1
Minor or 2nd Major Course		3
LOPER 9: Civic Competency and Engagement		3
Total Credit Hours		14

Code	Title	Credit Hours
<b>Semester 5</b>		
BIOL 307	Ecology	3
LOPER 7: Social Sciences		3
LOPER 10: Respect for Human Diversity		3
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Total Credit Hours		15

Code	Title	Credit Hours
<b>Semester 6</b>		
Biology Field Elective #1		4
Biology Lab Elective #1		3
LOPER 5: Visual or Performing Arts		3
Unrestricted Elective		3
Minor or 2nd Major Course		3
Total Credit Hours		16

Code	Title	Credit Hours
<b>Semester 7</b>		
BIOL 360	Genetics	4
BIOL 421	Seminar in Biology	1
or BIOL 431A	Research Methods IIA	
Biology Field Elective #2		3
LOPER 6: Humanities		3
Minor or 2nd Major Course		3
Unrestricted Elective		3
Total Credit Hours		17

Code	Title	Credit Hours
<b>Semester 8</b>		
BIOL 421	Seminar in Biology	1
or BIOL 431B	Research Methods IIB	
Biology Lab Elective #2		3
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Unrestricted Elective		3
Unrestricted Elective		3
Total Credit Hours		16