

BIOLOGY 7-12 TEACHING SUBJECT ENDORSEMENT, BACHELOR OF SCIENCE IN EDUCATION

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

Code	Title	Credit Hours
General Education		
<i>Foundational Requirement (LOPERs 1-4)</i>		12
Including:		
LOPER 2: Writing Skills		
ENG 101	Introduction to Academic Writing	
LOPER 3: Oral Communication Skills		
SPCH 100	Fundamentals of Speech Communication	
LOPER 4: Mathematics, Statistics, and Quantitative Reasoning		
MATH 102	College Algebra ¹	
<i>Broad Knowledge Requirements (LOPERs 5-8)</i>		13
Including:		
Loper 7: Social Science		
PSCI 110	Introduction to American Politics	
LOPER 8: Natural Science		
PHYS 201	Earth Science	
<i>Dispositional Requirements: (LOPERs 9-10) ²</i>		6
Including:		
LOPER 10: Respect for Human Diversity		
TE 100	Teaching in a Democratic Society	
<i>Wellness (LOPER 11) Optional</i>		0
Program Specific Requirements		3
ENG 102	Special Topics in Academic Writing and Research	
Professional Sequence ³		25
Including:		
TE 319	Management and Assessment in K-12/ Secondary Classrooms	
TE 320	Field Experience in Secondary Classroom	
Endorsement		
Complete all required course		47
Unrestricted Electives		
Needed to reach 120 credit hour minimum		14
Total Credit Hours		120

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

Endorsement

Code	Title	Credit Hours
Biology Subject Endorsement Core Requirements		
BIOL 105	Biology I	4
BIOL 106	Biology II	4
BIOL 231	Research Methods I	3
BIOL 359	Evolution	3
BIOL 305	BioStatistics	3
BIOL 307	Ecology	3
BIOL 360	Genetics	4
Take 2 hours from		2
BIOL 421	Seminar in Biology	
OR		
BIOL 431A	Research Methods IIA	
BIOL 431B	Research Methods IIB	
BIOL 471	Methods in Secondary Science Teaching	3
Biology Option Supporting Course Requirements		
<i>Earth Science</i>		
Fulfilled by General Studies requirements		0
<i>Chemistry</i>		
CHEM 160 & 160L	General Chemistry and General Chemistry Laboratory	8
AND		
CHEM 161 & 161L	General Chemistry and General Chemistry Laboratory	
<i>Math</i>		
MATH 103	Plane Trigonometry	3
<i>Statistics</i>		
Fulfilled by Biology Subject Endorsement Core requirements		0
<i>Physics</i>		
Select one of the following:		4
PHYS 301	Advanced Physical Science	
PHYS 205 & 205L	General Physics I and Physics I Laboratory	
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory	
Counseling Skills		3
CSP 417	Counseling Skills	
Total Credit Hours		47

1

Students with sufficient preparation may enter the mathematics program at a higher level. Students are required to take a LOPERs 4: Mathematics, Statistical, and Quantitative Reasoning course regardless of entry level.

2

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 General Education hours.

3

Students must apply for admission to all Teacher Education programs. (<http://catalog.unk.edu/undergraduate/departments-programs/teacher-education/professional-sequence-education-degrees/>)

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
Semester 1		
BIOL 105	Biology I	4
CHEM 160 & 160L	General Chemistry and General Chemistry Laboratory	4
ENG 101	Introduction to Academic Writing	3
LOPER 1: First-year Seminar		3
MATH 102	College Algebra	3
Total Credit Hours		17

Code	Title	Credit Hours
Semester 2		
BIOL 106	Biology II	4
CHEM 161 & 161L	General Chemistry and General Chemistry Laboratory	4
ENG 102	Special Topics in Academic Writing and Research	3
PSCI 110	Introduction to American Politics	3
TE 100	Teaching in a Democratic Society	3
Total Credit Hours		17

Code	Title	Credit Hours
Semester 3		
BIOL 231	Research Methods I	3
BIOL 359	Evolution	3
MATH 103	Plane Trigonometry	3
TE 204	Growth & Development/Introduction to Exceptionalities	4
Total Credit Hours		13

Code	Title	Credit Hours
Semester 4		
BIOL 305	BioStatistics	3
PHYS 201	Earth Science	4
TE 206	Instructional Technology and the Preservice Teacher	3
SPCH 100	Fundamentals of Speech Communication	3
Total Credit Hours		13

Code	Title	Credit Hours
Semester 5		
BIOL 307	Ecology	3
TE 306	Reading and Inclusion in K-12 Classrooms	2
LOPER 5: Visual or Performing Arts		3
LOPER 6: Humanities		3
Unrestricted Elective		3
Total Credit Hours		14

Code	Title	Credit Hours
Semester 6		
BIOL 421 or BIOL 431A	Seminar in Biology Research Methods IIA	1
BIOL 471	Methods in Secondary Science Teaching	3
TE 319	Management and Assessment in K-12/ Secondary Classrooms	2
TE 320	Field Experience in Secondary Classroom	2
Physics Requirement - Select One		4-5
PHYS 301	Advanced Physical Science	
PHYS 205 & 205L	General Physics I and Physics I Laboratory	
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory	
Unrestricted Elective		3
Total Credit Hours		15-16

Code	Title	Credit Hours
Semester 7		
BIOL 421 or BIOL 431B	Seminar in Biology Research Methods IIB	1
BIOL 360	Genetics	4
CSP 417	Counseling Skills	3
Unrestricted Elective		3
Unrestricted Elective		3
Unrestricted Elective		3
Total Credit Hours		17

Code	Title	Credit Hours
Semester 8		
TE 400	Student Teaching	12
Total Credit Hours		12