

# SCIENCE 7-12 TEACHING FIELD ENDORSEMENT, BACHELOR OF SCIENCE IN EDUCATION

Offered by Department of Biology (<http://catalog.unk.edu/undergraduate/departments-programs/biology/>), Department of Chemistry (<http://catalog.unk.edu/undergraduate/departments-programs/chemistry/>), and Department of Physics and Astronomy (<http://catalog.unk.edu/undergraduate/departments-programs/physics-astronomy/>)

Code	Title	Credit Hours
<b>General Education</b>		
<i>Foundational Requirements (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	
<i>Broad Knowledge Requirements (LOPERs 5-8)</i>		11
Including:		
LOPER 7: Social Science		
PSCI 110	Introduction to American Politics	
LOPER 8: Natural Science		
PHYS 205 & 205L	General Physics I and Physics I Laboratory	
<i>Dispositional Requirements (LOPERs 9-10)</i> <sup>1</sup>		6
Including:		
LOPER 9: Civic Competency and Engagement		
PSCI 110	Introduction to American Politics	
LOPER 10: Respect for Human Diversity		
TE 100	Teaching in a Democratic Society	
<i>Wellness (LOPER 11) Optional</i>		0
<b>Program Specified Requirements</b>		3
ENG 102	Special Topics in Academic Writing and Research <sup>2</sup>	
<b>Professional Sequence</b>		
TE 204	Growth & Development/Introduction to Exceptionalities	4
TE 206	Instructional Technology and the Preservice Teacher	3
TE 306	Inclusive Literacy	3
TE 319	Management and Assessment in K-12/Secondary Classrooms	2
TE 320	Field Experience in Secondary Classroom	2
TE 400	Student Teaching	12
<b>Endorsement</b>		
Complete all required courses		50-53

<b>Unrestricted Electives</b>	
Needed to reach 120 credit hour minimum	9-12
<b>Total Credit Hours</b>	<b>120</b>

## Endorsement

Code	Title	Credit Hours
<b>Science Field Endorsement Requirements</b>		
BIOL 105	Biology I	4
BIOL 106	Biology II	4
BIOL 305	BioStatistics	3
BIOL 307	Ecology	3
BIOL 359	Evolution	3
CHEM 160 & 160L	General Chemistry and General Chemistry Laboratory	4
CHEM 161 & 161L	General Chemistry and General Chemistry Laboratory	4
CHEM 169	Chemistry Foundations and Careers	1
CHEM 301 & 301L	Analytical Chemistry and Analytical Chemistry Lab	4
CHEM 310	Safety in Chemistry	1
PHYS 201 or GEOG 201	Earth Science	4
PHYS 206 & 206L	General Physics II and Physics Laboratory II	5
PHYS 210	Astronomy	3
PHYS 301	Advanced Physical Science	4
Take 0-3 hours from the following:		0-3
CSP 417	Counseling Skills	
<b>Science Field Endorsement Methodology Requirement</b>		
Take one of the following options:		3
BIOL 471	Methods in Secondary Science Teaching	
PHYS 471	Methods in Secondary Science Teaching	
<b>Total Credit Hours</b>		<b>50-53</b>

<sup>1</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.

<sup>2</sup> "Science & Technical Writing" or "Academic Writing for the Sciences" preferred.

<sup>3</sup> 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
<b>Semester 1</b>		
LOPER 1: First-year Seminar 3		
TE 100	Teaching in a Democratic Society	3
MATH 102	College Algebra	3
BIOL 105	Biology I	4
CHEM 160 & 160L	General Chemistry and General Chemistry Laboratory	4
<b>Total Credit Hours</b>		<b>17</b>

Code	Title	Credit Hours
<b>Semester 2</b>		
BIOL 106	Biology II	4
CHEM 161 & 161L	General Chemistry and General Chemistry Laboratory	4
ENG 101	Introduction to Academic Writing	3
CHEM 169	Chemistry Foundations and Careers	1
PSCI 110	Introduction to American Politics	3
<b>Total Credit Hours</b>		<b>15</b>

Code	Title	Credit Hours
<b>Semester 3</b>		
TE 204	Growth & Development/Introduction to Exceptionalities	4
CHEM 301 & 301L	Analytical Chemistry and Analytical Chemistry Lab	4
SPCH 100	Fundamentals of Speech Communication	3
PHYS 210	Astronomy	3
<b>Total Credit Hours</b>		<b>14</b>

Code	Title	Credit Hours
<b>Semester 4</b>		
BIOL 305	BioStatistics	3
BIOL 307	Ecology	3
TE 206	Instructional Technology and the Preservice Teacher	3
PHYS 201 or GEOG 201	Earth Science	4
ENG 102	Special Topics in Academic Writing and Research	3
CHEM 310	Safety in Chemistry	1
<b>Total Credit Hours</b>		<b>17</b>

Code	Title	Credit Hours
<b>Semester 5</b>		
PHYS 205 & 205L	General Physics I and Physics I Laboratory	5
TE 306	Inclusive Literacy	3
BIOL 359	Evolution	3

TE 319	Management and Assessment in K-12/ Secondary Classrooms	2
Unrestricted Elective		3
<b>Total Credit Hours</b>		<b>16</b>

Code	Title	Credit Hours
<b>Semester 6</b>		
PHYS 206 & 206L	General Physics II and Physics Laboratory II	5
TE 320	Field Experience in Secondary Classroom	2
LOPER 5: Visual or Performing Arts		3
LOPER 6: Humanities		3
Unrestricted Elective		3
<b>Total Credit Hours</b>		<b>16</b>

Code	Title	Credit Hours
<b>Semester 7</b>		
TE 400	Student Teaching	12
<b>Total Credit Hours</b>		<b>12</b>

Code	Title	Credit Hours
<b>Semester 8</b>		
BIOL 471 or PHYS 471	Methods in Secondary Science Teaching	3
PHYS 301	Advanced Physical Science	4
Unrestricted Elective <sup>1</sup>		3
Unrestricted Elective		3
<b>Total Credit Hours</b>		<b>13</b>

<sup>1</sup> It is recommended to take CSP 417 in place of an Unrestricted Elective in Semester 8.