

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

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

Code	Title	Credit Hours
General Education		
<i>Foundational Requirements (LOPERs 1-4)</i>		14
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 115	Calculus I with Analytic Geometry ¹	
<i>Broad Knowledge Requirements (LOPERs 5-8)</i>		10
including		
LOPER 7: Social Sciences		
PSCI 110	Introduction to American Politics	
LOPER 8: Natural Sciences		
CHEM 160	General Chemistry	
CHEM 160L	General Chemistry Laboratory	
<i>Dispositional Requirements (LOPERs 9-10)</i>		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
Program Specified Requirements		3
ENG 102	Special Topics in Academic Writing and Research	
Professional Sequence		
Complete all required courses ²		25-26
Including:		
TE 319	Management and Assessment in K-12/ Secondary Classrooms	
TE 320	Field Experience in Secondary Classroom	
Endorsement		
Complete all required courses		48
Unrestricted electives		
Needed to reach 120 credit hour minimum		13-14
Total Credit Hours		120

Endorsement

Code	Title	Credit Hours
Physics Subject Endorsement Requirements		
PHYS 123	Freshman Physics Seminar	3
PHYS 201	Earth Science	4
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory	5
PHYS 276 & 276L	General Physics II (Calculus) and General Physics II (Calculus) Laboratory	5
PHYS 301	Advanced Physical Science	4
PHYS 346	Modern Physics I	4
PHYS 471	Methods in Secondary Science Teaching	3
BIOL 105	Biology I	4
BIOL 106	Biology II	4
Select 12 credit hours of the following:		12
PHYS 300-PHYS 499		
Total Credit Hours		48

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Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

- MATH 102
- MATH 103

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

Students should see their academic advisor to include biology requirements in order to meet Nebraska Department of Education Physics 7-12 teaching endorsement requirements.

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		
LOPER 1: First-year Seminar		3
PHYS 123	Freshman Physics Seminar	3
MATH 115	Calculus I with Analytic Geometry	5
ENG 101	Introduction to Academic Writing	3
PSCI 110	Introduction to American Politics	3
Total Credit Hours		17

Code	Title	Credit Hours
Semester 2		
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory	5
ENG 102	Special Topics in Academic Writing and Research	3
SPCH 100	Fundamentals of Speech Communication	3
TE 100	Teaching in a Democratic Society	3
Total Credit Hours		14

Code	Title	Credit Hours
Semester 3		
PHYS 276 & 276L	General Physics II (Calculus) and General Physics II (Calculus) Laboratory	5
CHEM 160 & 160L	General Chemistry and General Chemistry Laboratory	4
BIOL 105	Biology I	4
Unrestricted Elective		3
Total Credit Hours		16

Code	Title	Credit Hours
Semester 4		
PHYS 346	Modern Physics I	4
PHYS 201	Earth Science	4
TE 204	Growth & Development/Introduction to Exceptionalities	4
BIOL 106	Biology II	4
Total Credit Hours		16

Code	Title	Credit Hours
Semester 5		
PHYS 300-499		4
TE 206	Instructional Technology and the Preservice Teacher	3
Unrestricted Elective		3
LOPER 5: Visual or Performing Arts		3
LOPER 6: Humanities		3
Total Credit Hours		16

Code	Title	Credit Hours
Semester 6		
PHYS 300-499		4
PHYS 301	Advanced Physical Science	4
TE 306	Reading and Inclusion in K-12 Classrooms	2
LOPER 10: Respect for Human Diversity		3
Unrestricted Elective		3
Total Credit Hours		16

Code	Title	Credit Hours
Semester 7		
PHYS 300-499		4
PHYS 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
Unrestricted Elective		3
Total Credit Hours		14

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