

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

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

Code	Title	Credit Hours
<b>General Studies</b>		
<i>Foundational Core (Written, Math, Oral, Democracy)</i>		
ENG 102	Academic Writing and Research	3
MATH 115	Calculus I with Analytic Geometry <sup>1</sup>	5
SPCH 100	Fundamentals of Speech Communication	3
TE 100	Teaching in a Democratic Society	3
<i>Portal</i>		
Select one course numbered 188 ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course</a> )		
<i>Distribution</i>		
ENG 101	Introduction of Academic Writing	3
<i>If ENG 101 is not taken as a prerequisite for ENG 102 then additional hours may be required to meet the 27 credit hour minimum in the Distribution Area of General Studies.</i>		
Aesthetics ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics</a> )		
Humanities ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities</a> )		
Social Sciences ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences</a> )		
Including:		
PSCI 110	Introduction to American Politics	9
Natural Sciences ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences</a> )		
Including:		
Select one of the following:		
BIOL 105	Biology I <sup>2</sup>	
BIOL 106	Biology II	
Select one of the following:		
PHYS 205 & 205L	General Physics I and Physics I Laboratory	
or		
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory	
Analytical and Quantitative Thought ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought</a> )		
Wellness ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness</a> )		3
Including:		

PE 150	Healthy Wealthy and Wise	
<i>Capstone</i>		
Select one course numbered 388 ( <a href="http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course">http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course</a> )		3
<b>Professional Sequence <sup>3</sup></b>		
Select 25 credit hours including the following:		25
TE 206	Instructional Technology and the Preservice Teacher	
TE 306	Reading and Inclusion in K-12 Classrooms	
TE 319	Management and Assessment in K-12/ Secondary Classrooms	
TE 320	Field Experience in Secondary Classroom	
<b>Endorsement</b>		
Complete all required courses		34
<b>Unrestricted electives</b>		
Needed to reach 120 credit hour minimum		11
Total Credit Hours		120

## Endorsement

Code	Title	Credit Hours
<b>Chemistry Subject Endorsement Requirements</b>		
CHEM 160	General Chemistry	3
CHEM 160L	General Chemistry Laboratory	1
CHEM 161	General Chemistry	3
CHEM 161L	General Chemistry Laboratory	1
CHEM 269	Sophomore Seminar in Chemistry	1
CHEM 301	Analytical Chemistry	3
CHEM 301L	Analytical Chemistry Lab	1
CHEM 351	Biochemistry	3
CHEM 351L	Biochemistry Lab	1
CHEM 480	Physical Chemistry	3
or CHEM 482	Physical Chemistry for the Life Sciences	
CHEM 490L	Advanced Chemistry Laboratory I	2
Select one of the following:		5
CHEM 250 & 250L	Elementary Organic Chemistry and Elementary Organic Chemistry Lab	
or		
CHEM 360 & 360L	Organic Chemistry and Organic Chemistry Laboratory	
<b>Chemistry Subject Endorsement Other Science Requirements</b>		
<i>Earth Science</i>		
PHYS 201	Earth Science	4
<i>Biology</i>		
Fulfilled by General Studies requirements above.		0
<i>Physics</i>		
Fulfilled by General Studies requirements above.		0
<b>Chemistry Subject Endorsement Methodology Requirement</b>		
BIOL 471	Methods in Secondary Science Teaching	3
Total Credit Hours		34

<sup>1</sup> Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

- MATH 102
- MATH 103

<sup>2</sup> BIOL 105 would fulfill the prerequisite requirement for BIOL 471.

<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>)