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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENG 102</td>
<td>Academic Writing and Research</td>
<td>3</td>
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<tr>
<td>MATH 115</td>
<td>Calculus I with Analytic Geometry</td>
<td>5</td>
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<tr>
<td>SPCH 100</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
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<tr>
<td>TE 100</td>
<td>Teaching in a Democratic Society</td>
<td>3</td>
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## Portal
Select one course numbered 188 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course)

## Distribution

### Aesthetics
Aesthetics (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics) 3

### Humanities
Humanities (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities) 6

### Social Sciences
Social Sciences (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences) 6

Including:
- PSCI 110 Introduction to American Politics 1

### Natural Sciences
Natural Sciences (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences) 9

Including:
- Select one of the following:
  - BIOL 105 Biology I 2
  - BIOL 106 Biology II

Select one of the following:
- PHYS 205 General Physics I and Physics I Laboratory
- PHYS 275 General Physics I (Calculus) and General Physics I (Calculus) Laboratory

## Analytical and Quantitative Thought
Analytical and Quantitative Thought (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought) 0

## Wellness
Wellness (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness) 3

Including:
- PE 150 Healthy Wealthy and Wise

## Endorsement

**Chemistry Subject Endorsement Requirements**
- 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
- CHEM 490L Advanced Chemistry Laboratory I 2

Select one of the following:
- CHEM 250 & 250L Elementary Organic Chemistry and Elementary Organic Chemistry Lab 5

or
- CHEM 360 & 360L Organic Chemistry and Organic Chemistry Laboratory 5

**Chemistry Subject Endorsement Other Science Requirements**

### Earth Science
- PHYS 201 Earth Science 4

### Biology
Fulfilled by General Studies requirements above.

### Physics
Fulfilled by General Studies requirements above.

**Chemistry Subject Endorsement Methodology Requirement**
- BIOL 471 Methods in Secondary Science Teaching 3

Total Credit Hours 34

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1. Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:
   - MATH 102
   - MATH 103
2 BIOL 105 would fulfill the prerequisite requirement for BIOL 471.

3 Students must apply for admission to all Teacher Education programs (http://catalog.unk.edu/undergraduate/departments-programs/teacher-education/teacher-education-program-information)