# CHEMISTRY, BACHELOR OF ARTS

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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</table>

## General Studies

**Foundational Core (Written, Math, Oral, Democracy)**

Foundational Core courses (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses) 14

Including:

- MATH 115 Calculus I with Analytic Geometry

**Portal**

Select one course numbered 188 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course) 3

**Distribution**

- **ENG 101** Introduction of Academic Writing 3

*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.*

- **Aesthetics** 3

- **Humanities** 6

- **Social Sciences** 6

- **Natural Sciences** 9

Including:

- **CHEM 160** General Chemistry 3

- **CHEM 160L** 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 490L** Advanced Chemistry Laboratory I 2

- **CHEM 480** Physical Chemistry 3

- **CHEM 482** Physical Chemistry for the Life Sciences 2

Select one of the following:

- **CHEM 250 & 250L** Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory 5

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

## Main Area

- **Chemistry Core Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 161</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 161L</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 269</td>
<td>Sophomore Seminar in Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301L</td>
<td>Analytical Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 351L</td>
<td>Biochemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 490L</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 480</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 482</td>
<td>Physical Chemistry for the Life Sciences</td>
<td>2</td>
</tr>
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Select one of the following:

- **CHEM 250 & 250L** Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory 5

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

## Chemistry Electives

Select 3 credit hours from CHEM 300 - CHEM 499L 4

## Chemistry Supporting Course Requirements

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MATH 202</td>
<td>Calculus II with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 276 &amp; 276L</td>
<td>General Physics II (Calculus) Laborato</td>
<td>5</td>
</tr>
<tr>
<td>or PHYS 206 &amp; 206L</td>
<td>General Physics II (Calculus) Laboratory</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credit Hours 36

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

   - MATH 102
   - MATH 103

2. For specific language requirements see #2 of Bachelor of Arts Degree requirements (http://catalog.unk.edu/undergraduate/academics/degrees/ba).

3. A minor or second major is required for a complete degree program. The number of required electives needed to reach 120 total credit hours overall will depend upon the specific program chosen.

4. Except CHEM 388

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Unrestricted electives

Needed to reach 120 credit hours 7

Total Credit Hours 120

## Major Option

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## Chemistry Core Requirements

- **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 490L** Advanced Chemistry Laboratory I 2
- **CHEM 480** Physical Chemistry 3
- **CHEM 482** Physical Chemistry for the Life Sciences 2

Select one of the following:

- **CHEM 250 & 250L** Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory 5
- **CHEM 360 & 360L** Organic Chemistry and Organic Chemistry Laboratory 5

## Chemistry Electives

Select 3 credit hours from CHEM 300 - CHEM 499L 4

## Chemistry Supporting Course Requirements

- **MATH 202** Calculus II with Analytic Geometry 5
- **PHYS 276 & 276L** General Physics II (Calculus) and General Physics II (Calculus) Laboratory 5
- **PHYS 206 & 206L** General Physics II and Physics Laboratory II 5

Total Credit Hours 36

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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. For specific language requirements see #2 of Bachelor of Arts Degree requirements (http://catalog.unk.edu/undergraduate/academics/degrees/ba).

3. A minor or second major is required for a complete degree program. The number of required electives needed to reach 120 total credit hours overall will depend upon the specific program chosen.

4. Except CHEM 388