# Biology, Bachelor of Science

Offered by Department of Biology ([http://catalog.unk.edu/undergraduate/departments-programs/biology](http://catalog.unk.edu/undergraduate/departments-programs/biology))

### General Studies Program

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

- Foundational Core courses ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses))
- Including:
  - MATH 102 College Algebra

**Portal**

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

**Distribution**

- ENG 101 Introduction of Academic Writing
- Aesthetics ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics))
- Humanities ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities))
- Social Sciences ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences))
- Natural Sciences ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences))

- Including:
  - BIOL 105 Biology I
  - BIOL 106 Biology II

**Analytical and Quantitative Thought** ([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))

**Wellness** ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness))

**Capstone**

- Select one course numbered 388 ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course))

### BS Science-related course requirements

- CHEM 160 General Chemistry 3
- CHEM 160L General Chemistry Laboratory 1
- CHEM 161 General Chemistry 3
- CHEM 161L General Chemistry Laboratory 1

### Major Option

- Complete all required courses 35

### Minor or 2nd Major

- Complete all required courses 2 24

### Unrestricted electives

Needed to reach 120 credit hour minimum 6

Total Credit Hours 120

**A minimum 2.5 GPA is required in all courses counting toward this major.**

### Major Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 231</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 290</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 305</td>
<td>BioStatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 307</td>
<td>Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 360</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>Select 2 credit hours of the following: 2</td>
<td></td>
<td></td>
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<tr>
<td>BIOL 421</td>
<td>Undergraduate Seminar in Biology</td>
<td></td>
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<tr>
<td>BIOL 431</td>
<td>Research Methods II (It is MANDATORY for Majors electing the option of BIOL 431 to take a minimum of 2 credit hours for completion of their program of study.)</td>
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</tr>
<tr>
<td>BIOL 482</td>
<td>Seminar in Molecular Biology</td>
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### Biology Option Required Electives

#### Field electives

- Select 3 credit hours of the following: 3
  - BIOL 330 Wildlife Conservation
  - BIOL 405 Range and Wildlife Management
  - BIOL 406 Plant Ecology
  - BIOL 418 Plant Taxonomy
  - BIOL 435 Herpetology
  - BIOL 462 Animal Behavior
  - BIOL 470 Insect Biology
  - BIOL 472 Ichthyology
  - BIOL 473 Ornithology
  - BIOL 474 Mammalogy

#### Laboratory electives

- Select 6 credit hours of the following: 6
  - BIOL 211 Human Microbiology
  - BIOL 215 Human Physiology
  - BIOL 225 Anatomy and Physiology
  - BIOL 226 Anatomy and Physiology
  - BIOL 309 Cellular & Molecular Biology
  - BIOL 401 Principles of Immunology
  - BIOL 403 Plant Physiology
  - BIOL 404 Developmental Biology
  - BIOL 416 Plant Diversity and Evolution
  - BIOL 440 Infectious Diseases
  - BIOL 450 Advanced Molecular Biology
  - BIOL 465 Physiology

### Biology Option Supporting Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Plane Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following: 5-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 250</td>
<td>Elementary Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>&amp; 250L</td>
<td>and Elementary Organic Chemistry Lab</td>
<td></td>
</tr>
</tbody>
</table>
or

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 360</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>&amp; 360L</td>
<td>and Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>&amp; CHEM 361</td>
<td>and Organic Chemistry</td>
</tr>
<tr>
<td>&amp; CHEM 361L</td>
<td>and Organic Chemistry Laboratory</td>
</tr>
</tbody>
</table>

Total Credit Hours 35-40

1 The Biology degree requires a minimal mathematical competency at the level of trigonometry. Students with sufficient preparation may enter the mathematics program at a higher level, reducing the total credit hours needed. See advisor for math placement.

2 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.