### Biology

#### Major: Bachelor of Science Education

<table>
<thead>
<tr>
<th>120 hours are required to graduate</th>
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<tbody>
<tr>
<td>36 hours of upper level are required</td>
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#### Major Requirements

- **Must earn grade of 'C' or better in all required coursework.**

**Required Core - 18 semester hours**

1. BIOL 151/L General Biology I/Lab
2. BIOL 153/L General Biology II/Lab
3. BIOL 371/L Genetics/Lab
4. BIOL 373/L Evolution/Lab

#### Environmental Biology Emphasis

- Must take BIOL 311 & 311L with this emphasis
- BIOL 301/L Plant Systematics/Lab (4)
- BIOL 302 Animal Behavior (3)
- BIOL 311/L Principles of Ecology/Lab (4)
- BIOL 321 Conservation (3)
- BIOL 355/L Mammalogy/Lab (3)
- BIOL 357/L Invertebrate Zoology/Lab (4)
- BIOL 405/L Entomology/Lab (4)
- BIOL 415/L Mycology/Lab (3)
- BIOL 434/L Herpetology/Lab (4)
- BIOL 437 Biometry (3)
- BIOL 461/L Agroecology/Lab (3)
- BIOL 462/L Dendrology/Lab (4)
- BIOL 463/L Ornithology/Lab (4)

#### Cellular/Physiology Emphasis

- Must take BIOL 343 & 343L with this emphasis
- BIOL 317/L Electron Microscopy/Lab (3)
- BIOL 325/L Physiology/Lab (4)
- BIOL 331/L Microbiology/Lab (4)
- BIOL 343/L Cell & Molecular Biology/Lab (4)
- BIOL 381/L Vertebrate Anatomy/Lab (4)
- BIOL 422 Immunology (3)
- BIOL 430/L Neurobiology/Lab (4)
- BIOL 437 Biometry (3)
- BIOL 460/L Evolutionary & Ecological Plant Phys/Lab (3)
- BIOL 474/L Ecological Genomics/Lab (4)

#### Pre-Professional Teaching Core - 18 semester hours

1. EDFN 295 Practicum: Pre-Admission Teaching
2. EDFN 338 Foundations of American Education
3. EPSY 302 Educational Psychology
4. EPSY 428 Child & Adolescent Development
5. INED 411 South Dakota Indian Studies
6. PSYC 101 General Psychology (gen ed)
7. SPED 300/405 Stdsnt w/Expctntlities or Scndry Stdsn w/Disabilities

#### Professional Secondary Ed Teaching Core - 24 semester hours

1. EDFN 365 Computer Based Technology & Learning
2. MLED 480 Middle Level Methods
3. SEED 408 Plan, Manage & Assess the 7-12 Diverse Classroom
4. SEED 450 7-12 Reading and Content Literacy
5. SEED 495 Practicum: Pre-Student Teaching
6. EDFN 475 Human Relations
7. SEED 488 7-12 Student Teaching

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### Gen Ed Requirements

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<td>200</td>
<td>400</td>
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<td>Total</td>
<td>79</td>
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### Minor in Chemistry - Teaching

| 4 | CHEM 112/L Gen. Chem. I/Lab |
| 4 | CHEM 114/L Gen. Chem. II/Lab |
| 4 | CHEM 326/L Organic Chem I/Lab |
| 4 | CHEM 328/L Organic Chem II/Lab |
| 4 | CHEM 332/L Analytical Chem/Lab |

#### OR

- CHEM 465/L Biochemistry II/Lab

**If Necessary** Additional hours in major to meet 50% rule

**TOTALS:**

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### Social Science - 4 courses required

- PSYC 101 required for major, and will also satisfy a SS class. Take 2 additional courses from the following:

#### Additional hours to total 36 upper level

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### Additional hours to total 120

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