# Biology

- **Bachelor of Science Education**

## Major Requirements

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

### Required Core - 21 semester hours

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

### Middle Level Methods

- 2 BIOL 490 Seminar

### 7-12 Science Methods

- 3 SEED 413 7-12 Science Methods

### Restricted Electives - Elective courses shall be taken from two emphases, with at least two courses from each emphasis. Environmental students must take BIOL 311/L. Cell/Physiology students must take BIOL 343/L.

#### Environmental Biology Emphasis

- BIOL 301/L Plant Systematics/Lab
- BIOL 302 Animal Behavior

#### Biology Emphasis

- BIOL 311/L Principles of Ecology/Lab
- BIOL 321 Conservation
- BIOL 355/L Mammalogy/Lab
- BIOL 357/L Invertebrate Zoology/Lab
- BIOL 405/L Entomology/Lab
- BIOL 415/L Mycology/Lab
- BIOL 434/L Herpetology/Lab
- BIOL 437 Biometry
- BIOL 461/L Agroecology/Lab
- BIOL 462/L Endrology/Lab
- BIOL 463/L Ornithology/Lab

#### Cellular/Physiology Emphasis

- BIOL 317/L Electron Microscopy/Lab
- BIOL 325/L Physiology/Lab
- BIOL 331/L Microbiology/Lab

#### Cell & Molecular Biology Emphasis

- BIOL 343/L Cell & Molecular Biology/Lab
- BIOL 381/L Vertebrate Anatomy/Lab
- BIOL 422 Immunology
- BIOL 430/L Neurobiology/Lab
- BIOL 437 Biometry
- BIOL 460/L Evolutionary & Ecological Plant Phys/Lab
- BIOL 474/L Ecological Genomics/Lab

### Pre-Professional Teaching Core - 21 semester hours

- 1 EDFN 295 Practicum: Pre-Admission Teaching
- 2 EDFN 338 Foundations of American Education
- 3 EDFN 475 Human Relations
- 3 EPSY 302 Educational Psychology
- 3 EPSY 428 Child & Adolescent Development
- 3 INED 411 South Dakota Indian Studies
- 3 PSYC 101 General Psychology (gen ed)
- 3 SPED 100 Intro to Persons with Exceptionalities

### Professional Secondary Ed Teaching Core - 23 semester hours

- 3 EDFN 365 Computer Based Technology & Learning
- 1 EDFN 440 Classroom Management
- 2 MLED 480 Middle Level Methods
- 3 SEED 408 Diverse 7-12 Classroom
- 3 SEED 450 7-12 Reading and Content Literacy
- 1 SEED 495 Practicum: Pre-Student Teaching
- 1 EDFN 375 Methods of Technology Integration
- 9 SEED 488 7-12 Student Teaching

### TOTALS:

- 90

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### Arts & Humanities - 2 courses required

- ARAB 101, 102
- ARCH 241
- ART 111, 112
- ART 121, 123
- ARTH 100, 120, 121, 211, 212, 231
- CHIN 101, 102
- ENGL 115, 125, 210, 211, 212, 214, 221, 222, 230, 240, 241, 242, 248, 249, 250, 256, 258, 268
- FREN 101, 102, 201, 202
- GER 101, 102, 201, 202
- GREE 101, 102
- HUM 100, 200
- LAKL 101, 102, 201, 202
- LATI 101, 102
- MCOM 151, 160
- MFL 101, 102
- MUS 100, 117, 130, 131, 180, 201, 203, 240
- PHIL 100, 200, 215, 220, 233, 240, 270, 287
- REL 213, 224, 225, 238, 250
- RUSS 101, 102
- SPAN 101, 102, 201, 202
- THEA 100, 131, 200, 201, 231, 270

### TOTALS:

- 90