Major: **Composite Chemistry**  
Exit Exam:  
CAAP Proficiency Exam:  

Minor: **Biology**  
Degree: **Bachelor of Science Education**  

*120 hours are required to graduate*  
*36 hours of upper level are required*  

Prepared by:  
Phone #:  
Date:  

### Gen Ed Requirements

<table>
<thead>
<tr>
<th>Has</th>
<th>Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>300</td>
<td>400</td>
</tr>
<tr>
<td>300</td>
<td>400</td>
</tr>
</tbody>
</table>

#### Social Science - 3 courses required
- ANTH: 210, 220, 230
- ECON: 101, 201, 202
- GEOG: 101, 200, 210, 212, 219
- HIST: 151, 152, 256, 257, 313
- POLS: 100, 102, 141, 165, 210, 250, 253, 349
- PSYC: 101, 102

#### Arts & Humanities - 4 courses required
- ART: 111, 112, 121, 123
- ARTH: 100, 121, 211, 212, 231, 251
- ENGL: 210, 211, 212, 221, 222, 230, 240, 241
- ENGL: 242, 248, 249, 250, 256, 258, 268, 320, 411
- HIST: 111, 112, 121, 122
- MFL: 101, 102, 134
- HUM: 100, 200, 254, 387, 388
- MCOM: 151
- MUS: 100, 131, 200, 201, 203, 230, 231, 240
- PHIL: 100, 200, 215, 220, 233, 270
- REL: 213, 224, 225, 238, 250, 270
- THEA: 100, 131, 200, 201, 231, 270
- FREN: 101, 102
- GER: 101, 102
- RUSS: 101, 102
- LAKL: 101, 102
- SPAN: 101, 102
- ARAB/GREE

#### Social Science: take 3 courses from at least two different subject areas.  
Arts & Humanities: take 4 courses from at least two different subject areas (ART(H) are the same subject).

### Biology Minor

<table>
<thead>
<tr>
<th>Has</th>
<th>Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>300</td>
<td>400</td>
</tr>
<tr>
<td>300</td>
<td>400</td>
</tr>
</tbody>
</table>

- BIOL 151 General Biology I & 151L Lab
- BIOL 153 General Biology II & 153L Lab
- BIOL 311 Principles of Ecology & 311L Lab
- BIOL 331 Microbiology & 331L Lab
- BIOL 371 Genetics & 371L Lab
- BIOL 381 cell Elective
- SEED 413 7-12 Science Methods
  
* (If Necessary) Additional hours in minor to meet 50% rule

Global Requirement: depending on your selection, this requirement will satisfy 3 hours of either Social Science or Arts & Humanities requirements.  
Take 1 course from:  
- AIS/HIST 257, ANTH 210, ARTH 211/212/251, ENGL 211/212, GEOG 210, HIST 121/122/153, HUM 100, MCOM 151, POLS 141/250

### Major Requirements

+ 50% of major/minor courses must be from BHSU

#### Required Core - 46 semester hours
- CHEM 112 General Chemistry I
- CHEM 112L General Chemistry I Lab
- CHEM 114 General Chemistry II
- CHEM 114L General Chemistry II Lab
- CHEM 326 Organic Chemistry I
- CHEM 326L Organic Chemistry I Lab
- CHEM 328 Organic Chemistry II
- CHEM 328L Organic Chemistry II Lab
- CHEM 332 Analytical Chemistry
- CHEM 332L Analytical Chemistry Lab
- CHEM 342 Physical Chemistry I
- CHEM 464 Biochemistry I
- CHEM 464L Biochemistry I Lab
- CHEM 490 Senior Seminar
- PHYS 211 University Physics I
- PHYS 211L University Physics I Lab
- PHYS 213 University Physics II
- PHYS 213L University Physics II Lab
- SEED 413 7-12 Science Methods
- MATH 121 Survey of Calculus
- OR
- MATH 123 Calculus I & 123L Lab
- take 1 course and corresponding lab from the following:
  - CHEM 355 Field Environmental Chemistry & 355L Lab
  - CHEM 434 Instrumental Analysis & 434L Lab
  - CHEM 452 Inorganic Chemistry
  - CHEM 465 Biochemistry II & 465L Lab
  - GEOL 360 Geochemistry
  - RESR 498 Research

#### Pre-Professional Teaching Core - 18 semester hours
- EDFN 338 Foundations of American Education
- EDFN 395 Practicum: Pre-Admission Teaching
- EPSY 302 Educational Psychology
- EPSY 428 Child & Adolescent Development
- INED 411 South Dakota Indian Studies
- PSYC 101 General Psychology (gen ed)
- SPED 405 Educating Secondary Students with Disabilities

#### Professional Secondary Ed Teaching Core - 24 semester hours
- EDFN 365 Computer Based Technology & Learning
- MLED 480 Middle Level Methods
- SEED 408 Plan, Manage & Assess the 7-12 Diverse Classroom
- SEED 450 7-12 Reading and Content Literacy
- SEED 495 Practicum: Pre-Student Teaching
- EDFN 475 Human Relations
- SEED 488 7-12 Student Teaching
  
* (If Necessary) Additional hours in major to meet 50% rule

Additional hours to total 36 upper level  
Additional hours to total 120