B.S. ED.  ELEMENTARY EDUCATION  120 Credits

**GENERAL SCIENCE with Specialization in Biology (36 credits)**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Crs.</th>
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<tbody>
<tr>
<td>*SCI 211 Elementary Earth-Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 161 General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 162 General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 111 Intro. Physics I OR Phys 121 Gen. Physics I</td>
<td>3 or 4</td>
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</tbody>
</table>

**Choose Earth Science group A, B or C (7-8 credits)**

- **A**
  - GSCI 129 Intro. to Meteorology
  - AND
  - AST 113 The Cosmos

- **B**
  - GSCI 121 Dynamic Earth & GSCI 125 lab
  - AND
  - GSCI 141 Earth and Life History & GSCI 145 lab

- **C**
  - GSCI 131 Environmental Geoscience & GSCI 135 lab
  - AND
  - GSCI 141 Earth and Life History & GSCI 145 lab

**Specialization in Biology (20-22 credits)**

- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 200 Integrative Biology

**BIO Electives (minimum of 5 credits to reach 36 credits in the major)**

- Biology elective(s) at the 300 or 400 level selected in consultation with the major advisor

**RELATED REQUIREMENTS (18 credits)**

- *HIST 161 or HIST 162 American History (ST II)
- *PSY 136 Life Span Development (ST III)
- *EDF 215 Education in a Multicultural Society (ST III)
- *MATH 113 Structure of Math I: Number Systems (SK II)
- *MATH 213 Structure of Math II: Probability & Geo (SK II)

**ELEMENTARY PROFESSIONAL EDUCATION CORE (43 credits)**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Crs.</th>
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<tbody>
<tr>
<td>EDEL 315 Principles of Learning: Elementary</td>
<td>3</td>
</tr>
<tr>
<td>LLA 315 Comprehensive Reading Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>SPED 315 Intro. to Educating Learners with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>FA 412 Fine Arts Across the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDT 305 Educational Technology for Elementary</td>
<td>1</td>
</tr>
<tr>
<td>EDEL 322 Effective Elementary Teaching I</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 415 Elementary Social Studies Methods</td>
<td>2</td>
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<tr>
<td>LLA 316 Comprehensive Reading Instruction II</td>
<td>3</td>
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<tr>
<td>EDT 415 Developing Instructional Materials</td>
<td>1</td>
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<tr>
<td>EDEL 420 Effective Elementary Teaching II</td>
<td>3</td>
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<tr>
<td>LLA 412 Literacy in the Elementary School</td>
<td>3</td>
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<tr>
<td>MATH 412 Elementary Mathematics Methods</td>
<td>3</td>
</tr>
<tr>
<td>SCI 412 Learning and Curriculum Studies in Science</td>
<td>2</td>
</tr>
<tr>
<td>EDEL 431 Seminar: Leadership &amp; Learning Communities</td>
<td>1</td>
</tr>
<tr>
<td>EDEL 430 Elementary Student Teaching</td>
<td>9</td>
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</tbody>
</table>

*Prerequisite to the Professional Program, Grade of C or better required

All courses in the Professional Education Core require admission to the Professional Program and a grade of C or better.