## Curriculum in General Science Education

### Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1100 English Composition I</td>
<td>3</td>
<td>GEOL 1100 Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1610 Calculus I or 1617 Honors Calculus I</td>
<td>4</td>
<td>BIOL 1030 Organismal Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1020 Principles of Biology</td>
<td>3</td>
<td>BIOL 1031 Organismal Biology Laboratory</td>
<td>1</td>
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<tr>
<td>BIOL 1021 Principles of Biology Laboratory</td>
<td>1</td>
<td>Humanities Core</td>
<td>3</td>
</tr>
<tr>
<td>Core Fine Arts</td>
<td>3</td>
<td>ENGL 1120 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Core History</td>
<td>3</td>
<td>EDUC 1010 Orientation to Teacher Education</td>
<td>0</td>
</tr>
<tr>
<td>Core History or Core Social Science</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td><strong>Total</strong></td>
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### Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1030 Fundamentals Chemistry I</td>
<td>3</td>
<td>CHEM 1040 Fundamental Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1031 Fundamental Chemistry I Laboratory</td>
<td>1</td>
<td>CHEM 1041 Fundamental Chemistry II Laboratory</td>
<td>1</td>
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<tr>
<td>Core Literature</td>
<td>3</td>
<td>Core Literature or Core Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Social Science</td>
<td>3</td>
<td>Core Social Science</td>
<td>3</td>
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<tr>
<td>BIOL 2500 Human Anatomy and Physiology I</td>
<td>4</td>
<td>BIOL 3060 Ecology</td>
<td>4</td>
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<tr>
<td>BIOL 3030 Evolution and Systematics</td>
<td>3</td>
<td>GEOL 1110 Earth and Life Through Time</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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### Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Select one of the following:</td>
<td>4</td>
<td>Select one of the following:</td>
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<tr>
<td>PHYS 1500 General Physics I</td>
<td></td>
<td>PHYS 1510 General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 1600/1607 Engineering Physics I</td>
<td></td>
<td>PHYS 1610/1617 Engineering Physics II</td>
<td></td>
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<tr>
<td>FOUN 3000 Diversity of Learners and Settings</td>
<td>3</td>
<td>CTSE 4090 Curriculum and Teaching I: Science</td>
<td>4</td>
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<tr>
<td>CTSE 5000 Technology in Science Education</td>
<td>2</td>
<td>GEOL 5220 Geomorphology</td>
<td>3</td>
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<tr>
<td>GEOL 2010 Mineralogy and Optical Crystallography</td>
<td>5</td>
<td>RSED 3000/3003 Diversity and Exceptionality of Learners</td>
<td>3</td>
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<tr>
<td>GEOL 3060 Lunar and Planetary Geology</td>
<td>3</td>
<td>Course 3000-5000 level Earth Systems Science Elective</td>
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<td><strong>Total</strong></td>
<td>17</td>
<td><strong>Total</strong></td>
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### Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 3120 Adolescent Development, Learning, Motivation and Assessment II</td>
<td>3</td>
<td>UNIV 4AA0 University Graduation</td>
<td>0</td>
</tr>
<tr>
<td>CTSE 5100 Curriculum and Teaching II: Science</td>
<td>4</td>
<td>CTSE 4920/4923 Clinical Residency</td>
<td>11</td>
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<tr>
<td>CTRD 5003 Language and Literacy in the Content Areas</td>
<td>3</td>
<td>CTSE 5240/5243 Clinical Residency Seminar in Science Teaching</td>
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<p>| | | | |
| | | | |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Total Hours</th>
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</thead>
<tbody>
<tr>
<td>GEOL 3200 Introduction to Paleobiology</td>
<td>3</td>
<td>128</td>
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</table>

Students must complete a history sequence or a literature sequence.

1. Prerequisite: Admission to Teacher Education.
2. Prerequisite: Admission to Clinical Residency (application for Clinical Residency is one year in advance).
3. Prerequisite for Admission to Clinical Residency.