## Major in: Biology-Pre-Professional

### Program notes & Additional Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
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<tbody>
<tr>
<td>*All students pursuing this emphasis must complete BI 357 as their</td>
<td>required Biology core option.</td>
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<tr>
<td>Students must also complete either a Physical Science or Chemistry minor.</td>
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<tr>
<td>Biology majors, regardless of emphasis, are required to maintain a C</td>
<td>average in courses that are used to satisfy biology degree requirements.</td>
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<tr>
<td>Students graduating in the various emphases of the biology major are</td>
<td>required to take a standardized exit exam in their last year.</td>
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</tbody>
</table>

### Major 78-86 hours, 36 UD

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Has</th>
<th>Lacks</th>
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</thead>
<tbody>
<tr>
<td>BI 211 Principles of Biology I</td>
<td>5</td>
<td></td>
<td></td>
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<tr>
<td>BI 212 Principles of Biology II</td>
<td>5</td>
<td></td>
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<tr>
<td>BI 213 Principles of Biology III</td>
<td>5</td>
<td></td>
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<tr>
<td>BI 314 Introductory Genetics</td>
<td>4</td>
<td></td>
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<tr>
<td>BI 315 Cell Biology</td>
<td>4</td>
<td></td>
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<tr>
<td>BI 316 Evolution</td>
<td>4</td>
<td></td>
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<tr>
<td>BI 331 General Microbiology</td>
<td>4</td>
<td></td>
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<td><strong>Choose one (4-5)</strong></td>
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<tr>
<td>BI 317 Vertebrate Natural History (4)</td>
<td>4-5</td>
<td></td>
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<tr>
<td>BI 321 Systematic Field Botany (4)</td>
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<tr>
<td>BI 451 Invertebrate Zoology (5)</td>
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<td><strong>Choose one (4-5)</strong></td>
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<tr>
<td>BI 357 General Ecology*</td>
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<td>BI 454 Plant Ecology</td>
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<tr>
<td>CH 221 General Chemistry I</td>
<td>5</td>
<td></td>
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<tr>
<td>CH 222 General Chemistry II</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 223 General Chemistry III</td>
<td>5</td>
<td></td>
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<tr>
<td><strong>Math Options: choose one</strong></td>
<td></td>
<td>8-10</td>
<td></td>
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<tr>
<td>A) MTH 112 Elementary Functions (4)</td>
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<tr>
<td>MTH 243 Probability and Statistics (4)</td>
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<tr>
<td>B) MTH 251 Calculus I (5)</td>
<td></td>
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<tr>
<td>MTH 252 Calculus II (5)</td>
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<tr>
<td>C) MTH 251 Calculus I (5)</td>
<td></td>
<td></td>
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<tr>
<td>MTH 243 Probability and Statistics (4)</td>
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<tr>
<td><strong>PreProfessional Emphasis (19-21)</strong></td>
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<td>3</td>
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<tr>
<td>CH 451 Biochemistry II</td>
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<tr>
<td>BI 336 Adv. Human Anatomy &amp; Physiology</td>
<td>4</td>
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<tr>
<td><strong>Choose an option:</strong></td>
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<td>8-9</td>
<td></td>
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<tr>
<td>A) BI 324 Comparative Vertebrate Anatomy</td>
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<tr>
<td>BI 434 Comparative Vertebrate Physiology</td>
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<tr>
<td>B) BI 334 Adv. Human Anatomy &amp; Physiology</td>
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<tr>
<td>BI 335 Adv. Human Anatomy &amp; Physiology</td>
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<tr>
<td><strong>One UD course approved by advisor:</strong></td>
<td></td>
<td>4-5</td>
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</tbody>
</table>

### Minimum degree requirements of at least:

- 180 or more total credit hours
- 62 Upper Division credit hours
- 45 of last 60 credits earned at WOU campus

### BA Degree Requirements

- CS 101 or higher
- Math 105 or higher
- Writing Intensive:
- Foreign Language:

### BS Degree Requirements

- CS121 or higher
- Math 111 or higher
- CS/Math/Stats:
- Diversity:
- Writing Intensive: