B.S. IN EDUCATION - BIOLOGY

College of the Sciences and Mathematics

Curriculum

General Education Requirements (http://catalog.wcupa.edu/undergraduate/general-education-requirements)

- English Composition requirement 6
- Mathematics requirement 3
- Public Speaking requirement 3
- Science requirements 6
  - Science requirements are met by CHE 103 and PHY 130
- Behavioral & Social Science requirements 6
- Humanities requirements 6
- Arts requirement 3
- Diverse Communities requirement 3
- Interdisciplinary requirement 3
- Student Electives 9
- Writing Emphasis requirements 9

Major Requirements

- BIO 110 General Biology 1 3
- BIO 220 Cell Physiology 3 3
- BIO 230 Genetics 3 3
- CHE 103 General Chemistry I 3
- CRL 103 Experimental General Chemistry I (LAB) 1
- CHE 104 General Chemistry II 3
- CRL 104 Experimental General Chemistry II (LAB) 1
- CHE 231 Organic Chemistry I 4
- CRL 231 Experimental Organic Chemistry I Lab 2
- CHE 232 Organic Chemistry II 3
- ESS 101 Introduction to Geology 3
- PHY 130 General Physics I 4
- PHY 140 General Physics II 4
- MAT 121 Introduction to Statistics I 3
- Select one semester of calculus 3-4

Other Major Requirements

- BIO 214 General Microbiology 1 4
- BIO 215 General Botany 3 3
- BIO 217 General Zoology 3 3
- BIO 270 Ecology 3 3

Education Requirements 2

- EDF 300 Democracy and Education 3
- EDP 250 Educational Psychology 3
- EDA 103 Foundations of Special Education 3
- EDA 304 Special Ed Processes/Procedures for Secondary Educators 3
- EDR 347 Literacy Development and Secondary Students with Disabilities in Inclusive Classrooms 3
- EDS 306 Teaching Principles and Field Experience in Secondary Schools 3
- EDS 411 Student Teaching Sec - 1st Half 6
- EDS 412 Student Teaching Sec - 2nd Half 6
- ENG 382 Teaching English Language Learners PK-12 3
  - or LAN 382 Teaching English Language Learners PK-12 3
- SCB 350 Science Education in Secondary School 3

Biology Electives

Selected from courses at or above the 300 level, except BIO 307 and BIO 469. 3-4

Total Minimum Credits Required

- 3
- 4
- 127

1. Courses must be passed with a grade of C- (70%) or better.
2. Students applying for formal admission to teacher education must have a 2.80 GPA. Students formally admitted must graduate with a 3.0 GPA.

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Progress Report (DPR) via myWCU regularly. For more information, visit wcupa.edu/DegreeProgressReport.

The following is a suggested course sequence for this program; course offerings and availability are not guaranteed. Students should consult their academic advisor with any questions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year One</strong></td>
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<tr>
<td><strong>Semester One</strong></td>
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<tr>
<td>WRT 120</td>
<td>Effective Writing I</td>
<td>3</td>
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<tr>
<td>BIO 110</td>
<td>General Biology</td>
<td>3</td>
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<tr>
<td>CHE 103</td>
<td>General Chemistry I &amp; CRL 103 and Experimental General Chemistry I (LAB)</td>
<td>4</td>
</tr>
<tr>
<td>MAT 121</td>
<td>Introduction to Statistics I</td>
<td>3</td>
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<tr>
<td>Gen Ed 1</td>
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<td>3</td>
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| Credits | 16 |
| **Semester Two** | | |
| WRT XXX | | 3 |
| BIO 215 | General Botany or General Zoology | 3 |
| CHE 104 | General Chemistry II & CRL 104 and Experimental General Chemistry II (LAB) | 4 |
| SPK 208 | Public Speaking or Business and Professional Speech Communication | 3 |
| LIT/CLS (Gen Ed 2) | | 3 |

| Credits | 16 |
| **Year Two** | | |
| **Semester Three** | | |
| CHE 231 | Organic Chemistry I & CRL 231 and Experimental Organic Chemistry I Lab | 6 |
| BIO 215 | General Botany or General Zoology | 3 |
| BIO 217 | | 3 |
| EDP 250 | Educational Psychology (requires 20 FE hours) | 3 |
| EDF 300 | Democracy and Education | 3 |
| Gen Ed 3 | | 3 |

| Credits | 18 |
| **Semester Four** | | |
| BIO 214 | General Microbiology | 4 |
| Select one of the following: | | 3-4 |
| MAT 143 | Brief Calculus | |
| MAT 145 | Calculus for the Life Sciences | |
| MAT 161 | Calculus I | |
| Apply for FATE by semester end | | |
| General Education electives | | 8 |

<p>| Credits | 15-16 |</p>
<table>
<thead>
<tr>
<th>Year Three</th>
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<tbody>
<tr>
<td><strong>Semester Five</strong></td>
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<tr>
<td>PHY 130</td>
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<tr>
<td>BIO 220</td>
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<td>BIO 230 or BIO 270</td>
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<td>EDA 304</td>
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<td>EDR 347</td>
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<tr>
<th>Semester Six</th>
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<tbody>
<tr>
<td>Directed Electives 2</td>
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<tr>
<td>Bio Elective 1</td>
</tr>
<tr>
<td>EDS 306</td>
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<tr>
<td>LAN 382 or ENG 382</td>
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<tr>
<td>Gen Ed 4</td>
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| Credits | 16 |

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<thead>
<tr>
<th>Year Four</th>
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<tbody>
<tr>
<td><strong>Semester Seven</strong></td>
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<tr>
<td>Directed Elective 3</td>
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<tr>
<td>Bio Elective 2</td>
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<td>Gen Ed 5</td>
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<tr>
<td>SCB 350</td>
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<tr>
<td>BIO 311</td>
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| Select one of the following: | 3 |
| ESS XXX | |
| SCB 210 | The Origin of Life and the Universe | 3 |

| Credits | 15 |

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<thead>
<tr>
<th>Semester Eight</th>
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<tbody>
<tr>
<td>EDS 411 &amp; EDS 412</td>
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| Credits | 21 |

| Total Credits | 129-130 |

1 Only offered in Fall. Includes faculty-student mentoring experience.