# Applied Mathematics-Biology

## University Proficiencies

<table>
<thead>
<tr>
<th>ACT English 24-25, SAT Writing 550-580</th>
<th>Cr</th>
<th>ACT English &lt;20, SAT Writing &lt;470</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proficiency in first semester or ENGL 111 (Skip ENGL 111 if ACT 26+, SAT 590+)</td>
<td>Score ENGL 102 Basic English Skills</td>
<td>May take Proficiency at end of ENGL 102</td>
<td>3</td>
</tr>
</tbody>
</table>

## Evangel University FrameWorks Requirements

<table>
<thead>
<tr>
<th>BIBL 111 Essential Christianity</th>
<th>3</th>
<th>MATH 210 Statistics</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIBL 115 Old Testament Literature</td>
<td>3</td>
<td>Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>BIBL 116 New Testament Literature</td>
<td>3</td>
<td>Natural Science with a lab</td>
<td>4</td>
</tr>
<tr>
<td>BIBL 360-370 Book Study (choose one)</td>
<td>3</td>
<td>PSYC 138 Psychology of Healthy Relationships</td>
<td>3</td>
</tr>
<tr>
<td>FIN 138 Personal Finance</td>
<td>3</td>
<td>ICST 350 Global Connections</td>
<td>3</td>
</tr>
<tr>
<td>FRWK 220 Order</td>
<td>3</td>
<td>RHET 205 Effective Communication</td>
<td>3</td>
</tr>
<tr>
<td>FRWK 230 Humanity</td>
<td>3</td>
<td>(Writing Proficiency Required)</td>
<td>3</td>
</tr>
<tr>
<td>FRWK 240 Culture</td>
<td>3</td>
<td>Social Science Elective: Strongly recommend HIST 111 Am Hist I or GOVT Intro Am Gov</td>
<td>3</td>
</tr>
<tr>
<td>FRWK 320 Pentecost</td>
<td>3</td>
<td>HIST 111 Am Hist I or GOVT Intro Am Gov</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
<td>University Seminar: GSCI 100</td>
<td>1</td>
</tr>
</tbody>
</table>

## Major Requirements (24 cr. MATH, 24 cr. BIOL, 5 CHEM, 5 cr. PHYS, 3 cr. CPSC hours required)

### Required Math Courses

| MATH 210 Statistics | 3 |
| MATH 231 Calculus I | 4 |
| MATH 232 Calculus II | 4 |
| MATH 233 Calculus III | 4 |
| MATH 310 Probability and Statistical Inference | 3 |
| MATH 331 Linear Algebra | 3 |
| MATH 431 Differential Equations | 3 |

### Required Biology Courses

| BIOL 200 General Biology | 4 |
| BIOL 201 Zoology | 4 |
| BIOL 202 Botany | 4 |
| BIOL 235 Microbiology | 4 |
| BIOL 342 Ecology | 4 |
| BIOL 343 Environmental Biology | 4 |
| BIOL 311 Human Anatomy & Physiology I | 4 |
| BIOL 312 Human Anatomy & Physiology II | 4 |

### Required Chemistry Course

| CHEM 111 General Chemistry I | 5 |

### Required Physics Course

| PHYS 231 Engineering Physics I | 5 |

### Required Computer Science Course

| CPSC 111 Introduction to Computer Science or CPSC 141 Visual Basic Programming | 3 |

Minimum total credits to graduate: 124

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Department of Science and Technology - Evangel University - 1111 N. Glenstone Avenue - Springfield, Missouri 65802
## Applied Mathematics-Biology

Suggested Course Sequencing: Recommend 15 – 17 semester hours; however, attending summer school will reduce semester hours.

### Freshman year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 200 General Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 111 General Chemistry I [a]</td>
<td>5</td>
</tr>
<tr>
<td>BIBL 111 Essential Christianity</td>
<td>3</td>
</tr>
<tr>
<td>GSCI 100 University Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 232 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 210 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 201 Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIBL 115 Old Testament Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111 or RHET 205</td>
<td>3</td>
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</tbody>
</table>

17 Cr

### Sophomore year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 233 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 231 Engineering Physics I</td>
<td>5</td>
</tr>
<tr>
<td>CPSC 111 Introduction to Comp. Sci. (or CPSC 141)</td>
<td>3</td>
</tr>
<tr>
<td>BIBL 116 New Testament Literature</td>
<td>3</td>
</tr>
<tr>
<td>RHET 205 or Humanities Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 431 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>BIOL Elective</td>
<td>4</td>
</tr>
<tr>
<td>FIN 138 Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>FRWK 220 Order</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 138 Psychology of Healthy Relationships</td>
<td>3</td>
</tr>
</tbody>
</table>

18 Cr

### Junior year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 310 Probability and Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>BIOL Elective</td>
<td>4</td>
</tr>
<tr>
<td>BIBL 360-370 Book Study</td>
<td>3</td>
</tr>
<tr>
<td>FRWK 230 Humanity</td>
<td>3</td>
</tr>
<tr>
<td>ICST 350 Global Connections</td>
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<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Cr</th>
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<tbody>
<tr>
<td>BIOL Elective</td>
<td>4</td>
</tr>
<tr>
<td>FRWK 240 Culture</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>6</td>
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</tbody>
</table>

16 Cr

### Senior year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 331 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BIOL Elective</td>
<td>4</td>
</tr>
<tr>
<td>FRWK 320 Pentecost</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Electives</td>
<td>15</td>
</tr>
</tbody>
</table>

16 Cr

Total minimum to graduate 124 Cr and must include at least 36 upper division credits

[a] Those not prepared for CHEM 111 should take CHEM 101 - Introduction to Chemistry.

Graduation requires an overall GPA of at least 2.0, and 30 of the 40 final credits must be taken at Evangel. The listing above only represents suggested course sequencing as required to graduate with this major. Students are ultimately responsible for their own degree program. An academic advisor is assigned to the student for guidance in these matters, but the responsibility for meeting the requirements belongs to the student.