### 2017-2018
B.A. or B.S. BIOLOGY

#### GRACE CORE (39 credits)

The Grace Core is designed around four essential relationships. Though all courses engage most relationships, courses are organized according to the relationship that is their primary focus.

<table>
<thead>
<tr>
<th>Relationship to God</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bib 1050</td>
<td>Exploring the Bible</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>1 Bib 2010</td>
<td>Scripture and Interpretation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bib 3300</td>
<td>Essential Doctrinal Themes</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relationship to Self</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 FYE 1010</td>
<td>Freshman Foundations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Ecn 3000</td>
<td>Consumer Economics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Phi 3010</td>
<td>Christianity and Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relationship to Others</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Com 1100</td>
<td>Public Speaking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Eng 1100</td>
<td>Effective Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3 Psy 1200</td>
<td>Essentials in Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relationship to the World and the Environment</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>His 1380</td>
<td>Contemporary America and the World</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4 HUM 2000</td>
<td>Global Perspectives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUM 2010-30</td>
<td>Cross-Cultural Field Experience (2 APL)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>HUM 2100</td>
<td>Creative Arts &amp; Culture</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Sci 2030</td>
<td>Faith, Science, &amp; Reason</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### ADDITIONAL GENERAL EDUCATION (6 credits)

**Option 1: Language proficiency - toward a BA degree**
- Chi/Fre/Spa Proficiency Language & Culture | 6 |
- Gre/Heb Biblical Languages | 6 |

**OR**

**Option 2: Math and Science/Social Science-toward a BS degree**
- Mat 1000+ Any Math (1000 Level or Above) | 3 |
- Any science/social science with the following course prefix:
  - Psy, Bhs, Soc, Ecnc, his, Pos, Geo | 3 |

1 First Year Spring B
2 First Year Fall A
3 First Year Fall B
4 First Year Spring A
5 Must take science or social science course outside of major

> @ Indicates a course with prerequisites

Please review catalog for prerequisites

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#### REQUIRED SCIENCE COURSES (40 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1610</td>
<td>General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 1620</td>
<td>General Biology I Lab (1 APL)</td>
<td>0</td>
</tr>
<tr>
<td>@ BIO 1710</td>
<td>General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>@ BIO 1720</td>
<td>General Biology II Lab (1 APL)</td>
<td>0</td>
</tr>
<tr>
<td>BIO 2110</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 2120</td>
<td>General Ecology Lab (2 APL)</td>
<td>0</td>
</tr>
<tr>
<td>@ BIO 2310</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>@ BIO 3110</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>@ BIO 4120</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>@ BIO 4010</td>
<td>Senior Seminar (1 APL)</td>
<td>3</td>
</tr>
<tr>
<td>Chm 1610</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Chm 1620</td>
<td>General Chemistry I Lab (1 APL)</td>
<td>0</td>
</tr>
<tr>
<td>@ Chm 1710</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>@ Chm 1720</td>
<td>General Chemistry II Lab (1 APL)</td>
<td>0</td>
</tr>
<tr>
<td>Chm 2610</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>@ Chm 2620</td>
<td>Organic Chemistry I Lab (1 APL)</td>
<td>0</td>
</tr>
<tr>
<td>@ Chm 2710</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>@ Chm 2720</td>
<td>Organic Chemistry II Lab (1 APL)</td>
<td>0</td>
</tr>
</tbody>
</table>

**CHOOSE ONE OF THESE COURSE/LABS (4 Credits)**

- @ BIO 3120/3220 Advanced Anat & Phys I + lab (1 APL) | 4 |
- @ BIO 3130/3320 Advanced Anat & Phys II + lab (1 APL) | 4 |
- @ BIO 4110/4120 Microbiology + Lab (1 APL) | 4 |

**CHOOSE ONE OF THESE COURSE/LABS (4 Credits)**

- @ BIO 2410/2420 Plant Biology + Lab (1 APL) | 4 |
- @ BIO 2510/2520 Animal Biology + Lab (1 APL) | 4 |

**CHOOSE ONE OF THESE COURSE/LABS (4 Credits)**

- @ Phy 2510/2520 Physics I + Lab (1 APL) | 4 |
- @ Phy 2610/2620 Physics II + Lab (1 APL) | 4 |

**CHOOSE ONE OF THESE COURSE/LABS + (3-4 Credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mat 1230/1240</td>
<td>Calculus I + Lab (1 APL)</td>
<td>4</td>
</tr>
<tr>
<td>Mat 3200</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

+ In addition to 3 hours of Bachelor of Science math

#### OTHER: CHOOSE 10 CREDITS FROM APPROVED BIO/ENV/SCI/EXS COURSES

(At least one course must include a lab)

TOTAL MAJOR HOURS: 65-66

MINOR REQUIRED: YES (Courses include Chemistry minor)

APPLIED LEARNING: 12/12