University of South Alabama - Covey College of Allied Health Professions

BIOMEDICAL SCIENCES
Bachelor of Science
2018-2019 Sample Curriculum

Please note that Math, Biology, and Chemistry classes may have prerequisite courses depending on each student's ACT scores or previously completed classes. Please refer to the Bulletin for details.

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<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tr>
<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td>EH 101 Composition I</td>
<td>3</td>
<td>EH 102 Composition II</td>
</tr>
<tr>
<td>BLY 121 General Biology I</td>
<td>3</td>
<td>BLY 122 General Biology II</td>
</tr>
<tr>
<td>BLY 121L General Biology I Lab</td>
<td>1</td>
<td>BLY 122L General Biology II Lab</td>
</tr>
<tr>
<td>CH 131 General Chemistry I</td>
<td>3</td>
<td>CH 132 General Chemistry II</td>
</tr>
<tr>
<td>CH 131L General Chemistry I Lab</td>
<td>1</td>
<td>CH 132L General Chemistry II Lab</td>
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| PSY 120 General Psychology | 3             | MA 125 Calculus I | 4  
|                          | **14**        | **15**          |

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<td><strong>SOPHOMORE YEAR</strong></td>
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| CH 201 Organic Chemistry I | 3             | CH 202 Organic Chemistry II | 3  
| CH 201L Organic Chemistry I Lab | 1        | CH 202L Organic Chemistry II Lab | 1  
| PH ____ Physics I Elective | 4             | PH ____ Physics II Elective | 4  
| PH ____ Physics I Elective Lab | 1        | PH ____ Physics II Elective Lab | 1  
| BMD 201 Seminars in Biomedical Sciences | 1   | CA 110 Public Speaking | 3  
| EH ____ Literature Elective | 3             | Statistics Elective | 3  
| HY ____ History Elective | 3             |                 |
|                          | **16**        | **15**          |

Most BMD major courses are offered only once per year.

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<td><strong>JUNIOR YEAR</strong></td>
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| BMD 311 Human Anatomy    | 3             | BMD 322 Biochemistry II | 3  
| BMD 321 Biochemistry I   | 3             | BMD 323 Biochemistry Lab | 1  
| BMD 334 Human Physiology I | 3             | BMD 335 Human Physiology II | 3  
| _____ History Sequence* OR Social Science Elective | 3    | BMD 336 Human Physiology Lab - W** | 1  
| _____ Literature Sequence* OR Humanities Elective | 3    | SY 109 Introductory Sociology | 3  
|                          | **15**        | **14**          |

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<td><strong>SENIOR YEAR</strong></td>
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| BMD 401 Immunology       | 3             | BMD 402 Medical Microbiology | 4  
| BMD 420 Pharmacology     | 3             | BMD 410 Pathophysiology | 3  
| BMD 430 Neurosciences    | 4             | BMD 450 Introduction to Research | 2  
| BMD 493 Issues in Biomedical Sciences - W** | 3    | Math/Science Elective | 3  
| _____ Fine Arts Elective | 3             | General Elective | 3  
|                          | **16**        | **16**          |

TOTAL HOURS REQUIRED: 120 minimum

Notes:
* A two-course sequence is required in either Literature or History. Sequences are listed on the back.
** Two writing (W) courses are required, one of which must come from your major or minor.

• Electives for each category are listed on the back of this curriculum.
• Completing 30 credits per year (Fall, Spring, Summer) enables you to graduate in four years.
• Scholarship students must contact the Scholarship Office if they cannot take 30/year.
• Honors students should refer to the separate Biomedical Sciences Model Curriculum for Honors.

8/18/2018
**FINE ARTS - 1 course**
- ARH 100 Survey of Art
- ARH 103 Art History I
- ARH 123 Art History II
- ARS 101 Art Appreciation
- DRA 110 Introduction to Drama
- MUL 101 Introduction to Music

**GENERAL**
Any college-level course of your choice.

**HISTORY - 1 course**
- HY 101 History of Western Civilization I
- HY 102 History of Western Civilization II
- HY 135 U. S. History to 1877
- HY 136 U. S. History since 1877

**HUMANITIES - 1 course**
- AFR 101 Intro to African-American Studies
- EH Any course in the Literature category
- IST 105 Encounter with the Humanities
- LG Any language course:
  - French, Spanish, German, Russian, except LG 190, 290 or 390.
- LGS Any language course:
  - American Sign Language, Arabic, Chinese, Hindi, Japanese, Greek, Italian, Korean, etc., except LGS 190, 290, or 390.
- PHL 110 Introduction to Philosophy
- PHL 120 Critical Thinking
- PHL 121 Introduction to Logic
- PHL 131 Introduction to Ethics
- PHL 231 Social Ethics
- PHL 240 Western Philosophy: Greek
- REL 100 Intro to the Study of Religion
- REL 200 Old Testament/Hebrew Bible
- REL 201 Survey of the New Testament

**LITERATURE - 1 course**
- EH 215 Survey of British Lit I
- EH 216 Survey of British Lit II
- EH 225 Survey of American Lit I
- EH 226 Survey of American Lit II
- EH 235 Survey of World Lit I
- EH 236 Survey of World Lit II

**MATH/SCIENCE, continued**
- BMD 210 Infectious Disease in Healthcare Environments
- BMD 350 Molecular Basis of Genomics
- BMD 494 Directed Research Studies
- CH 265 Introductory Analysis
- CH 499 Senior Honors Chemistry
- MA 126 Calculus II (4 credits)
- ST 310 Statistical Research Techniques

**PHYSICS - One two-course sequence with labs**
- PH 114 Physics with Algebra-Trig I - 4 cr
- PH 114L Physics with Algebra-Trig I Lab - 1 cr
- PH 115 Physics with Algebra-Trig II - 4 cr
- PH 115L Physics with Algebra-Trig II Lab - 1 cr
- PH 201 Calculus-Based Physics I - 3 cr
- PH 201L Calculus-Based Physics I Lab - 1 cr
- PH 202 Calculus-Based Physics II - 3 cr
- PH 202L Calculus-Based Physics II Lab - 1 cr

**SOCIAL SCIENCE - 1 course**
- AN 100 Intro to Cultural Anthropology
- AN 101 Intro to Archaeology & Physical Anthropology
- CA 100 Intro to Communication
- CA 211 Interpersonal Communication
- ECO 215 Principles of Microeconomics
- ECO 215 Principles of Macroeconomics
- GEO 114 Introduction to Human Geography
- GEO 115 Introduction to World Geography
- GS 101 Intro to Gender Studies
- HY Any course in the History category
- IS 100 Global Issues
- IST 201 Seasons of Life
- PSC 130 Introduction to U. S. Government
- PSY 250 Lifespan Development
- PSY 310 Biological Psychology
- PSY 340 Abnormal Psychology
- SY 109 Introductory Sociology
- SY 112 Social Problems

**STATISTICS - 1 course**
- ST 210 Statistical Reasoning & Applications
- BUS 245 Applied Business Statistics I

**HISTORY and LITERATURE SEQUENCES**
*Part II can be taken before Part I.*

**History:**
- HY 101 and HY 102
- HY 135 and HY 136

**Literature:**
- EH 215 and EH 216
- EH 225 and EH 226
- EH 235 and EH 236

*One history and one literature are required.*

If you choose a History sequence, take the required literature and one humanities.
If you choose a Literature sequence, take the required history and one social science.

8/17/2018