BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES BACCMEC TRACK

The BS in Biological Sciences - BaccMed Track degree is competitive program recommended for those who wish to pursue careers in medicine.

Learning Outcomes

The student learning outcomes for the major in Biological Sciences are as follows:

- Students will be able to synthesize concepts in biology and sub-disciplines of biology (Students will know, be able to explain, and synthesize concepts in biology and sub-disciplines of biology).
- Students will be able to analyze data and information in biology using statistical analysis, technology and computer-based analytical algorithms.
- Students will be able to critique or evaluate information in biology or sub-disciplines of biology (Students will be able to think critically about information in biology or sub-disciplines of biology).
- Students will be able to communicate information in biology using appropriate vocabulary and syntax.
- Students will be prepared for entry into professional health or research related schools, post-graduate (MS) programs, or the workplace.

The BS degree in Biological Sciences requires a minimum of 37 semester hours from within the Department of Biological Sciences. (Courses at the 1000-level are not applicable to a BS degree.) Required courses may not be taken as credit/no credit.

All Biological Science majors following the BaccMed track must satisfy the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONR 1500</td>
<td>Intro to Honors</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1581H</td>
<td>Honors Biomathematics 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Listed GER courses below are required for this major.

Arts and Humanities

- CHEM 1515 & 1515L General Chemistry 1 and General Chemistry 1 Laboratory 4
- CHEM 1516 & 1516L General Chemistry 2 and General Chemistry 2 Laboratory 4

Social Science

- SOC 1500 Introduction to Sociology 3
- PSYC 1560 General Psychology 3

Social and Personal Awareness

- PHLT 1531 Fundamentals of Public Health 3
- PHLT 3709 Elements of Urban Environmental Health Practices 3
- HABS 4809 Primary Care Medical Practices 2

Required BIOL Courses (21 s.h.):

- BIOL 2603 Integrated Biology for BaccMed 4
- BIOL 3711 Cell Biology: Fine Structure 3

In addition to the 21 s.h. Required BIOL Courses, students must take a minimum of 16 s.h. elective BIOL courses. These must be 3700 level or higher. A minimum of two BIOL electives must have a laboratory component. One of these labs must be at 4800 level or above.

Required Support Courses (54 s.h.):

- CHEM 1515 & 1515L General Chemistry 1 and General Chemistry 1 Laboratory 4
- CHEM 1516 & 1516L General Chemistry 2 and General Chemistry 2 Laboratory 4
- CHEM 3719 & 3719L Organic Chemistry 1 and Organic Chemistry 1 Laboratory 4
- CHEM 3720 & 3720L Organic Chemistry 2 and Organic Chemistry 2 Laboratory 4
- CHEM 3785 Biochemistry 1 3
- PHYS 2610 General Physics 1 4
- PHYS 2610L General Physics Laboratory 1 1
- PHYS 2611 General Physics 2 4
- PHYS 2611L General Physics Laboratory 2 1
- MATH 1572 Calculus 2 4
- STAT 3717 Statistical Methods (or Biol 5853, Biometry, 4 sh) 4
- SOC 1500 Introduction to Sociology 3
- SOC 3745 Sociology of Health, Illness, and Healthcare 3
- PSYC 1560 General Psychology 3
- PHLT 1531 Fundamentals of Public Health 3
- PHLT 3709 Elements of Urban Environmental Health Practices 3
- HABS 4809 Primary Care Medical Practices 2

Free Electives Additional coursework as needed to reach 120 s.h.

Total Semester Hours 120