BIOLOGY (AOC)

PROGRAM OVERVIEW

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This transfer pattern is designed for students planning to transfer to a four-year degree program with a major in biology or in a pre-professional area such as pre-medicine, pre-pharmacy, pre-veterinary medicine or pre-dentistry. The transfer pattern provides all the basic science, mathematics, and general studies transfer courses that are required during the first two years of a general four-year program. The general studies listed below should be coordinated with transfer requirements at the four-year institution and adjusted accordingly, when necessary.

This is a transfer program and is designed to enable students to transfer to a four-year college or university. Check with your advisor and the Advising Center staff as soon as possible to ensure specific course transferability.

Successful completion of this program qualifies a student to apply for an Associate of Science degree in Arts and Sciences - Area of Concentration in Biology.

COURSE REQUIREMENTS

REQUIRED SCIENCE COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIO-101</td>
<td>General Biology I</td>
</tr>
<tr>
<td>BIO-102</td>
<td>General Biology II</td>
</tr>
<tr>
<td>BIO-103 or</td>
<td>General Botany or Microbiology or Biotechnology (Medical Laboratory Technology 206)</td>
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<tr>
<td>BIO-204 or</td>
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<tr>
<td>BIO-206</td>
<td></td>
</tr>
<tr>
<td>CHEM-101</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM-102</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHEM-203 or</td>
<td>Organic Chemistry I or</td>
</tr>
<tr>
<td>PHYS-101</td>
<td>Introductory Physics I</td>
</tr>
<tr>
<td>CHEM-204 or</td>
<td>Organic Chemistry II or</td>
</tr>
<tr>
<td>PHYS-102</td>
<td>Introductory Physics II</td>
</tr>
</tbody>
</table>

REQUIRED GENERAL COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ENG-101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>ENG-103 or</td>
<td>Introduction to Literature or Arts and Humanities Elective</td>
</tr>
<tr>
<td>Arts and Humanities Elective</td>
<td></td>
</tr>
<tr>
<td>MATH-109</td>
<td>Probability and Statistics</td>
</tr>
<tr>
<td>MATH-119 or</td>
<td>Pre-Calculus I or</td>
</tr>
<tr>
<td>MATH-201</td>
<td>Calculus I</td>
</tr>
<tr>
<td>PSYC-101 or</td>
<td>General Psychology or Social and Behavioral Science Elective</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
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</tbody>
</table>

*ENG-103 or Arts and Humanities Elective - Depends on transfer institution. Consult advisor.

REQUIRED ELECTIVE COURSES

Please consult with your advisor or the Advising Center staff for selecting appropriate elective courses for graduation.

Arts and Humanities Elective - 3 credits

Elective - 2 credits

Laboratory Science Elective - 4 credits

Social and Behavioral Science Elective - 3 credits

PROGRAM PATH

BIOLOGY

AREA OF CONCENTRATION
PREPARATION FOR TRANSFER

**FIRST SEMESTER**
- Biological Science 101 (General Biology I)  
  Credit Hours: 4
- Chemistry 101 (General Chemistry I)  
  Credit Hours: 4
- English 101 (English Composition I)  
  Credit Hours: 3
- Mathematics 119* or 201 (Pre-Calculus I or Calculus I)  
  Credit Hours: 4
  **Total:** 15

**SECOND SEMESTER**
- Biological Science 102 (General Biology II)  
  Credit Hours: 4
- Chemistry 102 (General Chemistry II)  
  Credit Hours: 4
- English 103* (Introduction to Literature) or Arts and Humanities Elective $^1$  
  Credit Hours: 3
- Mathematics 109 (Probability and Statistics)  
  Credit Hours: 3
  **Total:** 14

**THIRD SEMESTER**
- Select 2 of the following Biological Sciences:
  - Biological Science 103, 204, or 206 (General Botany, Microbiology, or Biotechnology)  
    Credit Hours: 8
  - Chemistry 203 or Physics 101 (Organic Chemistry I or Introductory Physics I)  
    Credit Hours: 4
  - Psychology 101 (General Psychology) or Social and Behavioral Science Elective $^2$  
    Credit Hours: 3
  **Total:** 15

**FOURTH SEMESTER**
- Arts and Humanities Elective $^1$  
  Credit Hours: 3
- Chemistry 204 or Physics 102 (Organic Chemistry II or Introductory Physics II)  
  Credit Hours: 4
- Elective  
  Credit Hours: 2
- Laboratory Science Elective  
  Credit Hours: 4
- Social and Behavioral Science Elective $^2$  
  Credit Hours: 3
  **Total:** 16

**Total Credit Hours:** 60

$^*$ Depends on transfer institution. Consult advisor.

$^1$ Arts and Humanities elective must be from two different disciplines.

$^2$ Social and Behavioral Science elective must be from two different disciplines.

**NOTE:** All courses specifically identified by course number are graduation requirements for this program.