Associate in Science in Biology and Medical Pre-Professional

Program Overview
This degree prepares students to transfer to a four-year institution to study upper-division science courses in a medical pre-professional program, with the ultimate goal of successful completion of an entrance exam and/or admissions requirement to a medical professional program.

To Learn More About This Program
Contact Tom Beaven at 269-782-1253 or tbeaven@swmich.edu.

Degree Requirements
To earn this degree, students must have an overall GPA of 2.0 or higher, complete a minimum of 60 credit hours, and fulfill the course requirements of the program listed below. Students, working closely with their advisor, are permitted to substitute the courses in the General Education and MTA Courses section below according to the guidelines on page 36 of this catalog. Each general education course, prerequisite course, internship/practicum, and capstone course must be completed with a final grade of C or better.

Course Offerings
Students pursuing an Associate in Science in Biology and Medical Pre-Professional may complete select courses for this program online. Courses within this program may also be offered on-site at our Dowagiac or Niles campus.

General Education and MTA Courses

<table>
<thead>
<tr>
<th>COMMUNICATIONS</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 103 or</td>
<td>ENGL 103W</td>
<td>Freshman English 2 (or with workshop)</td>
<td>3 to 4 credits</td>
</tr>
<tr>
<td>ENGL 104</td>
<td>Freshman English 3</td>
<td></td>
<td>3 credits</td>
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<table>
<thead>
<tr>
<th>MATHEMATICS</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 130</td>
<td>Precalculus Mathematics</td>
<td></td>
<td>5 credits</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>NATURAL SCIENCE</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biology 1</td>
<td></td>
<td>5 credits</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>General Biology 2</td>
<td></td>
<td>5 credits</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>General Chemistry 1</td>
<td></td>
<td>5 credits</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry 2</td>
<td></td>
<td>5 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIAL SCIENCE</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>General Psychology</td>
<td></td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCI 201</td>
<td>Principles of Sociology</td>
<td></td>
<td>3 credits</td>
</tr>
</tbody>
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<thead>
<tr>
<th>HUMANITIES</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110 or MUSI 110</td>
<td>Art Appreciation or Music Appreciation</td>
<td></td>
<td>3 credits</td>
</tr>
<tr>
<td>PHIL 201</td>
<td>Introduction to World Religion</td>
<td></td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Total Program Credits: 64
Additional Notes About the A.S. in Biology and Medical Pre-Professional Program

- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites is listed below in the Example Course Sequence section.
- This program as outlined meets MTA requirements.
- Courses taken out of sequence may delay a student’s ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before they plan to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence
The following is a sample of a semester-by-semester approach to completing this program.

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites (Minimum Grade of C Required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 120 Educational Exploration and Planning</td>
<td>1 credit</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed</td>
</tr>
<tr>
<td>BIOL 101 General Biology 1</td>
<td>5 credits</td>
<td>CHEM 100, or one year of high school chemistry with minimum grade of B taken within the last 5 years, or Challenge test score; ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed</td>
</tr>
<tr>
<td>CHEM 101 General Chemistry 1</td>
<td>5 credits</td>
<td>MATH 127 or Math test score (Level 4 or higher) concurrent enrollment allowed; CHEM 100, or one year of high school chemistry with minimum grade of B taken within the last 5 years, or Challenge test score; ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed</td>
</tr>
<tr>
<td>MATH 130 Precalculus Mathematics</td>
<td>5 credits</td>
<td>MATH 127 or Math test score (Level 4 or higher)</td>
</tr>
</tbody>
</table>

### SECOND SEMESTER

<table>
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<tr>
<th>Courses</th>
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<th>Prerequisites (Minimum Grade of C Required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110 Art Appreciation or MUSI 110 Music Appreciation</td>
<td>3 credits</td>
<td>See Course Description for details</td>
</tr>
<tr>
<td>BIOL 102 General Biology 2</td>
<td>5 credits</td>
<td>BIOL 101</td>
</tr>
<tr>
<td>CHEM 102 General Chemistry 2</td>
<td>5 credits</td>
<td>CHEM 101 and MATH 127 or Math test score (Level 4 or higher)</td>
</tr>
<tr>
<td>PSYC 101 General Psychology</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed</td>
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</tbody>
</table>

### THIRD SEMESTER

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<tr>
<th>Courses</th>
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<th>Prerequisites (Minimum Grade of C Required)</th>
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<tbody>
<tr>
<td>ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)</td>
<td>3 to 4 credits</td>
<td>ENGL 103W: English test score (Level 2 or higher) ENGL 103: ENGL 115 or English test score (Level 3); concurrent enrollment in ENGL 115 allowed</td>
</tr>
<tr>
<td>SOCI 201 Principles of Sociology</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed</td>
</tr>
<tr>
<td>CHEM 201 Organic Chemistry 1</td>
<td>5 credits</td>
<td>CHEM 102</td>
</tr>
<tr>
<td>PHYS 101 Introductory Physics 1</td>
<td>5 credits</td>
<td>MATH 130 or Math test score (Level 5)</td>
</tr>
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### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Courses</th>
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<th>Prerequisites (Minimum Grade of C Required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 201 Introduction to World Religion</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed</td>
</tr>
<tr>
<td>ENGL 104 Freshman English 3</td>
<td>3 credits</td>
<td>ENGL 103 or ENGL 103W</td>
</tr>
<tr>
<td>CHEM 202 Organic Chemistry 2</td>
<td>5 credits</td>
<td>CHEM 201</td>
</tr>
<tr>
<td>PHYS 102 Introductory Physics 2</td>
<td>5 credits</td>
<td>PHYS 101</td>
</tr>
</tbody>
</table>