

# Associate in Science in Biology and Medical Pre-Professional

## Program Outcomes

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 requirements to a medical professional program.

## Employment Opportunities or Additional Educational Options

With this degree, students are prepared well to transfer to a four-year institution to study pre-med, chemistry, biology, health services, physics, or other related health or science field.

## To Learn More About This Program

Contact Anna Norris at (269) 782-1254 or [anorris@swmich.edu](mailto:anorris@swmich.edu) or contact Tom Beaven at (269) 782-1253 or [tbeaven@swmich.edu](mailto:tbeaven@swmich.edu).

## Degree Requirements

To earn this degree, students must have an overall GPA of 2.0, fulfill the course requirements of the program listed below, and complete a minimum of 60 credit hours. Additionally, each general education course must be completed with a minimum grade of "C." Courses marked with an asterisk may be substituted for different courses with approval. Talk to an advisor for specific details.

## General Education and MTA Courses

### COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or 103W	Freshman English 2 (or with workshop)	3 to 4 credits
ENGL 104	Freshman English 3	3 credits

### MATHEMATICS

Course ID	Course	Credits
MATH 130	Precalculus Mathematics	5 credits

### NATURAL SCIENCE

Course ID	Course	Credits
BIOL 101	General Biology 1	5 credits
BIOL 102	General Biology 2	5 credits
CHEM 101	General Chemistry 1	5 credits
CHEM 102	General Chemistry 2	5 credits

### SOCIAL SCIENCE

Course ID	Course	Credits
PSYC 101	General Psychology	3 credits
SOCI 201	Principles of Sociology	3 credits

### HUMANITIES

Course ID	Course	Credits
ART 110	Art Appreciation*	3 credits
PHIL 201	Introduction to World Religion*	3 credits

## Major Specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
CHEM 201	Organic Chemistry 1	5 credits
CHEM 202	Organic Chemistry 2	5 credits
PHYS 101	Introductory Physics 1	5 credits
PHYS 102	Introductory Physics 2	5 credits

## Additional Notes About the A.S. 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 are 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 he/she plans 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

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
EDUC 120 Educational Exploration and Planning	1 credit	CRIT 103, CRIT 103W, or test scores (concurrent enrollment allowed)
BIOL 101 General Biology 1	5 credits	CHEM 100 or HS Waiver; and CRIT 103, 103W, test scores
CHEM 101 General Chemistry 1	5 credits	MATH 127 or concurrent enrollment; CHEM 100 or HS Waiver; CRIT 103, CRIT 103W or test scores
MATH 130 Precalculus Mathematics	5 credits	MATH 127 or test score

### SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
ART 110 Art Appreciation	3 credits	CRIT 103, CRIT 103W, or test scores (concurrent enrollment allowed)
BIOL 102 General Biology 2	5 credits	BIOL 101
CHEM 102 General Chemistry 2	5 credits	CHEM 101 and MATH 127 or test scores
PSYC 101 General Psychology	3 credits	CRIT 103, CRIT 103W, or test scores (concurrent enrollment allowed)

### THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
ENGL 103 or 103W Freshman English 2 (or with workshop)	3 to 4 credits	CRIT 103, CRIT 103W or test scores (concurrent enrollment allowed); ENGL 101 or test score
SOCI 201 Principles of Sociology	3 credits	CRIT 103, CRIT 103W, or test scores (concurrent enrollment allowed)
CHEM 201 Organic Chemistry 1	5 credits	CHEM 102
PHYS 101 Introductory Physics 1	5 credits	MATH 130

### FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
PHIL 201 Introduction to World Religion	3 credits	CRIT 103, CRIT 103W, or test scores (concurrent enrollment allowed)
ENGL 104 Freshman English 3	3 credits	ENGL 103 or ENGL 103W
CHEM 202 Organic Chemistry 2	5 credits	CHEM 201
PHYS 102 Introductory Physics 2	5 credits	PHYS 101