



Biology A.S.

Curriculum Code: 0221

Effective: Fall 2019 – Summer 2024

Description

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this broad subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

General Education MTA Courses, Recommended Choices

(For the full list of options, see [Michigan Transfer Agreement](#))

- English Composition – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course) or Communication – *Select one*
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- Humanities and Fine Arts – *Select two, each from a different discipline*
ENGL 220, Science Fiction, 4 credits / 4 billing hours
HIST 211, U.S. History to 1877, 4 credits / 4 billing hours
HIST 212, U.S. History: 1877 to Present, 4 credits / 4 billing hours
HUMS 213, World Civilizations to 1600, 4 credits / 4 billing hours
HUMS 214, World Civilizations from 1600, 4 credits / 4 billing hours
PHIL 151, Intro to Logic & Critical Think, 4 credits / 4 billing hours
PHIL 152, Introduction to Ethics, 4 credits / 4 billing hours
RELG 150, Intro to World Religions, 4 credits / 4 billing hours
- Mathematics – *Select one*
MATH 121, Precalculus I, 4 credits / 4 billing hours
- Natural Sciences – *Select two, each from a different discipline, one must be a lab course*
Program of Study Required Courses will meet this requirement

- Social Science – *Select two, each from a different discipline*
 ANTH 270, Cultural Anthropology, 3 credits / 3 billing hours
 GEOG 200, World Regional Geography, 4 credits / 4 billing hours
 POLS 120, American Political System, 4 credits / 4 billing hours
 PSYC 200, Introduction to Psychology, 4 credits / 4 billing hours
 SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
MATH 122	Precalculus II	4 / 4

Elective Courses, Recommended Choices – *Select courses to reach the minimum 60 total credits required for this degree. (For the full list of options, see [AA and AS Degree Electives](#))*

Course Code	Course Title	Credit / Billing Hours
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
BIOL 270	Human Genetics	3 / 3
BIOL 275	Molecular Biology I	4 / 6

Total Credit Hours

61-63 credits / 73-77 billing hours

Recommended Course Sequence

Semester I (Fall)	Semester II (Spring)
MTA English Composition	BIOL 127
MTA Mathematics	CHEM 152
CHEM 151	CHEM 162
CHEM 161	MATH 122

Semester III (Summer)	Semester IV (Fall)
MTA English Comp (2nd course) or Communication	MTA Humanities and Fine Arts MTA Social Science Elective BIOL 128 CHEM 251

Semester V (Spring)
MTA Humanities and Fine Arts MTA Social Science CHEM 252 CHEM 272