

LANSING COMMUNITY COLLEGE

Liberal Arts

Curriculum Code: 0221
 (Effective Fall 2018 –
 Summer 2023)

Biology A.S. Pathway

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this 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).

General Education - MTA: MINIMUM: 30 credits

Complete General Education - MTA Requirements for the Associate of Arts Degree

- A. English Composition: One course
- B. English Composition (second course) or Communication: One course
- C. Humanities and Fine Arts: A total of 2 courses, each from a different discipline
- D. Mathematics: One course from Quantitative Reasoning, College Algebra or Statistics
- E. Natural Sciences: A total of 2 courses, each from a different discipline; one must be a lab course
- F. Social Science: A total of 2 courses, each from a different discipline

For More 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.

Semester I Fall	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area A. English Composition - <i>Select 1</i>			
ENGL 121	Composition I	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	4 / 4
ENGL 131	Honors Composition I	Reading Level 5 and Writing Level 7	4 / 4
General Education - Area D. Mathematics - <i>Select 1</i>			
MATH 121	Precalculus I	(Minimum 2.5 in MATH 109 or MATH 112 within 2 years) or (SAT Math 550 or ACT Math 22 or CPT College Level Math 55 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4

Program of Study Requirements			
<i>CHEM 151 or 161 will also satisfy one of the two courses needed for the MTA Natural Sciences requirement.</i>			
CHEM 151	General Chemistry Lecture I	Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 109 concurrently or MATH 112 concurrently)	4 / 4
CHEM 161	General Chemistry Lab I	Minimum 2.0 in CHEM 151 or concurrently and Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 109 concurrently or MATH 112 concurrently)	1 / 3
Credits			13 / 15
Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
<i>BIOL 127 also satisfies one of the two Natural Science courses required for this degree.</i>			
BIOL 127	Cell Biology	(Minimum 2.0 in CHEM 120) or (Minimum 2.0 in CHEM 151 or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
CHEM 152	General Chemistry Lecture II	Minimum 2.0 in CHEM 151 and (Math Level 7 or MATH 121 or MATH 126 or concurrently) and Reading Level 5 and Writing Level 6	3 / 3
CHEM 162	General Chemistry Lab II	Minimum 2.0 in (CHEM 152 or concurrently) and CHEM 161 and Reading Level 5 and Writing Level 6 and Math Level 7 (or Math 121 or Math 126 or concurrently)	1 / 3
MATH 122	Precalculus II	(Minimum 2.0 in MATH 121 within 2 years or Math Level 7 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4
Credits			12 / 16

Semester III Summer	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area B. English Composition or Communication - <i>Select 1</i>			
ENGL 122	Composition II	Minimum 2.0 in ENGL 121 or ENGL 131 or (Reading Level 5 and Writing Level 8)	4 / 4
ENGL 132	Honors Composition II	Minimum 3.5 in ENGL 121 or ENGL 131 or Reading Level 5 and Writing Level 8	4 / 4
Program of Study Requirements			
BIOL 270	Human Genetics	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
Credits			7 / 7
Semester IV Fall	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area C. Humanities and Fine Arts - <i>Select 1</i> <i>Two Humanities and Fine Arts courses are required for this degree, each from a different discipline.</i>			
PHIL 151	Intro to Logic & Critical Think	Reading Level 5	4 / 4
PHIL 152	Introduction to Ethics	Reading Level 5 and Writing Level 6	4 / 4
RELG 150	Intro to World Religions	Reading Level 5 and Writing Level 6 or (ENGL 098 or ENGL 099 concurrently)	4 / 4
General Education - Area F. Social Science - <i>Select 1</i> <i>Two Social Science courses are required for this degree, each from a different discipline.</i>			
ANTH 270	Cultural Anthropology	Reading Level 5 and Writing Level 6	3 / 3
POLS 120	American Political System	Reading Level 5	4 / 4
Program of Study Requirements - <i>Select 1</i>			
BIOL 275 <i>(Fall only)</i>	Molecular Biology I	Minimum 2.0 in (BIOL 127 and CHEM 151 and CHEM 161) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6

Elective - <i>Select 1</i>			
CHEM 251	Organic Chemistry Lecture I	Minimum 2.0 in CHEM 151 and Reading Level 5 and Writing Level 6	4 / 4
PHYS 221	Introductory Physics I	Reading Level 5 and Writing Level 6 and (Math Level 9 or minimum 2.0 in MATH 122 or MATH 141)	4 / 6
Credits			15-16 / 17-20
Semester V Spring	Course Title	Prerequisites	Credits/Billing Hours
General Education - Area C. Humanities and Fine Arts - <i>Select 1</i>			
<i>Two Humanities and Fine Arts courses are required for this degree, each from a different discipline.</i>			
HIST 211	U.S. History to 1877	Reading Level 5 and Writing Level 6	4 / 4
HIST 212	U.S. History: 1877 to Present	Reading Level 5 and Writing Level 6	4 / 4
HUMS 213	World Civilizations to 1600	Reading Level 5 and Writing Level 6	4 / 4
HUMS 214	World Civilizations from 1600	Reading Level 5 and Writing Level 6	4 / 4
General Education - Area F. Social Science - <i>Select 1</i>			
<i>Two Social Science courses are required for this degree, each from a different discipline.</i>			
GEOG 200	World Regional Geography	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 4
PSYC 200	Introduction to Psychology	Reading Level 5 or (ENGL 098 or ENGL 099 concurrently)	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently)	4 / 4
Program of Study Requirements			
BIOL 128	Organismal Biology	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6

Program of Study Requirements – <i>Select 1</i>			
BIOL 260	Botany	Reading Level 5 and Writing Level 6	4 / 6
BIOL 265	Zoology	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
BIOL 276	Molecular Biology II	Minimum 2.0 in BIOL 275 and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
Credits			16 / 20
Total Credits			63-64 / 75-78