

LANSING COMMUNITY COLLEGE

Liberal Arts

Curriculum Code:
0117 (Effective Fall
2017 – Summer
2022)

Chemistry 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

Semester I	Course Title	Prerequisites	Credit/ Billing Hours
General Education - Area A. English Composition - <i>Select 1</i>			
ENGL 121 <i>(formerly WRIT 121)</i>	Composition I	Reading Level 5 and Writing Level 6	4 / 4
General Education - Area F. Social Science - <i>Select 1</i>			
ANTH 270	Cultural Anthropology	Reading Level 5 and Writing Level 6	3 / 3
COMM 280 <i>(formerly SPCH 280)</i>	Intercultural Communication	Reading Level 5 and Writing Level 6	3 / 3
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
POLS 120	American Political System	Reading Level 5	4 / 4
PSYC 200	Introduction to Psychology	Reading Level 5 or or AASD 105 concurrently	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or or AASD 105 concurrently	4 / 4

General Education - Area D. Mathematics - <i>Select 1</i>			
MATH 151	Calculus I	(Minimum 2.0 in MATH 122 within 2 years or Math Level 9 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4
Program of Study Requirements			
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	Reading Level 5 and Writing Level 6 and Math Level 6 and Minimum 2.0 in CHEM 151 or concurrently or MATH 112 concurrently	1 / 3
Credits			16-17 / 18-19
Semester II	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area B. English Composition or Communication: - <i>Select 1</i>			
ENGL 122 <i>(WRIT 122 equivalent)</i>	Composition II	Minimum 2.0 in ENGL 121 (formerly WRIT 121) or ENGL 131 (formerly WRIT 131) or (Reading Level 5 and Writing Level 8)	4 / 4
ENGL 132 <i>(WRIT 132 equivalent)</i>	Honors Composition II	Reading Level 5 and Writing Level 8 and Minimum 3.5 in ENGL 121 or ENGL 131 (WRIT 121 or WRIT 131)	4 / 4

General Education - Area C. Humanities and Fine Arts - <i>Select 1</i>			
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
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	4 / 4
Program of Study Requirements			
CHEM 152	General Chemistry Lecture II	Reading Level 5 and Writing Level 6 and Minimum 2.0 in CHEM 151 and Math Level 7 or MATH 121 or MATH 126 or concurrently	3 / 3
CHEM 162	General Chemistry Lab II	Reading Level 5 and Writing Level 6 and Minimum 2.0 in CHEM 152 or concurrently and CHEM 161 and Math Level 7 or Math 121 or Math 126 or concurrently	1 / 3
MATH 152	Calculus II	(Minimum 2.0 in MATH 151 or MATH 161 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4
Credits			16 / 18
Semester III	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area E. Natural Sciences - <i>Select 1</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

General Education - Area F. Social Science - <i>Select 1</i>			
ANTH 270	Cultural Anthropology	Reading Level 5 and Writing Level 6	3 / 3
COMM 280 <i>(formerly SPCH 280)</i>	Intercultural Communication	Reading Level 5 and Writing Level 6	3 / 3
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
POLS 120	American Political System	Reading Level 5	4 / 4
PSYC 200	Introduction to Psychology	Reading Level 5 or or AASD 105 concurrently	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or or AASD 105 concurrently	4 / 4
Program of Study Requirements			
CHEM 251	Organic Chemistry Lecture I	Reading Level 5 and Writing Level 6 and Minimum 2.0 in CHEM 151	4 / 4
CHEM 262	Quantitative Analysis	Reading Level 5 and Writing Level 6 and Math Level 7 and Minimum 2.0 in CHEM 152 and CHEM 162	3 / 6
Electives - <i>Select 1</i> <i>Courses may not be duplicated</i>			
MATH 253	Calculus III	(Minimum 2.0 in MATH 152 or MATH 162 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4
PHYS 251	Physics I: Mechanics	(Minimum 2.0 in MATH 152 or MATH 162 or concurrently) and Reading Level 5 and Writing Level 6	5 / 7
PHYS 252	Physics II:Electrom/Wave/Optic	Minimum 2.0 in PHYS 251 and (Minimum 2.0 in MATH 152 or MATH 162) and Reading Level 5 and Writing Level 6	5 / 7
Credits			18-20 / 23-27

Semester IV	Course Title	Prerequisites	Credit/ Billing Hours
Program of Study Requirements			
CHEM 252	Organic Chemistry Lecture II	Reading Level 5 and Writing Level 6 and Minimum 2.0 in CHEM 251	4 / 4
CHEM 272	Organic Chemistry Laboratory	Reading Level 5 and Writing Level 6 and Minimum 2.0 in CHEM 251	2 / 6
General Education - Area C. Humanities and Fine Arts - <i>Select 1</i> <i>MUST from a different code than those previously selected.</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
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	4 / 4
Electives - <i>Select 1</i> <i>Courses may not be duplicated</i>			
PHYS 251	Physics I: Mechanics	(Minimum 2.0 in MATH 152 or MATH 162 or concurrently) and Reading Level 5 and Writing Level 6	5 / 7
PHYS 252	Physics II: Electrom/Wave/Optic	Minimum 2.0 in PHYS 251 and (Minimum 2.0 in MATH 152 or MATH 162) and Reading Level 5 and Writing Level 6	5 / 7
Credits			15 / 21
Total Credits			65-68 / 80-85