

LANSING COMMUNITY COLLEGE			
Liberal Arts			
Curriculum Code: 0163 (Effective Fall 2017 – Summer 2022)	Chemical Technology A.A.S. Pathway		
Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 120 <i>(formerly SPCH 120)</i>	Dynamics of Communication	Reading Level 5 and Writing Level 6	3 / 3
COMM 130 <i>(formerly SPCH 130)</i>	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3
Math Core Area - <i>Select 1</i>			
MATH 121	Precalculus I	(Minimum 2.5 in MATH 109 or MATH 112 within 2 years or Math Level 6 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4
Program of Study Requirements			
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 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 112 concurrently)	1 / 3
Credits			16 / 20

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
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
ISCI 245	S.T.E.M. Workplace Practices	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH109 concurrently or MATH 112 concurrently)	4 / 6
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

Related Course Electives - <i>Select 1-2 courses for a minimum of 3 credits</i> <i>Courses may not be duplicated</i>			
BIOL 203	Microbiology	(Minimum 2.0 in BIOL 121 or BIOL 127 or CHEM 120 or CHEM 151 or passing score on Health Biology Proficiency Test) and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
BIOL 204	Microbiology Laboratory	Minimum 2.0 in BIOL 203 or concurrently and Reading Level 5 and Writing Level 6 and Math Level 4	1 / 3
ENVR 121	Environmental Rules and Regs	Reading Level 5 and Writing Level 6 and Math Level 5	3 / 3
ENVR 122	Enviro Sampl & Instrumentation	Reading Level 5 and Writing Level 6 and Math Level 5	4 / 6
ENVR 131	Industrial Process Safety	Reading Level 5 and Writing Level 6 and Math Level 5	3 / 3
PHYS 222	Introductory Physics II	Minimum 2.0 in (PHYS 221 or Department Approval) and Reading Level 5 and Writing Level 6	4 / 6
SCIN 287	Science Technology Internship	Department Approval	2-4 / 2-4
Credits			15-16 / 19-22
Semester III	Course Title	Prerequisites	Credit/Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 121 <i>(formerly WRIT 121)</i>	Composition I	Reading Level 5 and Writing Level 6	4 / 4
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

Global Perspectives and Diversity Core Area - <i>Select 1</i>			
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
GEOG 200	World Regional Geography	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
HUMS 213	World Civilizations to 1600	Reading Level 5 and Writing Level 6	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	Reading Level 5 and Writing Level 6	4 / 4
POLS 260	Comparative Political Systems	Reading Level 5 and Writing Level 6	3 / 3
SOCL 120	Introduction to Sociology	Reading Level 5 or AASD 105 concurrently	4 / 4
Program of Study Requirements			
CHEM 251	Organic Chemistry Lecture I	Minimum 2.0 in CHEM 151 and Reading Level 5 and Writing Level 6	4 / 4
CHEM 262	Quantitative Analysis	Minimum 2.0 in (CHEM 152 and CHEM 162) and Reading Level 5 and Writing Level 6 and Math Level 7	3 / 6
STAT 215	Intro to Probability and Stats	(Minimum 2.0 in MATH 120 or above or Math Level 7) and Reading Level 5 and Writing Level 4	4 / 4
Credits			18-19 / 21-22

Semester IV	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CHEM 252	Organic Chemistry Lecture II	Minimum 2.0 in CHEM 251 and Reading Level 5 and Writing Level 6	4 / 4
CHEM 272	Organic Chemistry Laboratory	Minimum 2.0 in CHEM 251 and Reading Level 5 and Writing Level 6	2 / 6
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
Related Course Electives - <i>Select 1-2 courses for a minimum of 3 credits</i> <i>Courses may not be duplicated</i>			
BIOL 203	Microbiology	(Minimum 2.0 in BIOL 121 or BIOL 127 or CHEM 120 or CHEM 151 or passing score on Health Biology Proficiency Test) and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
BIOL 204	Microbiology Laboratory	Minimum 2.0 in BIOL 203 or concurrently and Reading Level 5 and Writing Level 6 and Math Level 4	1 / 3
ENVR 121	Environmental Rules and Regs	Reading Level 5 and Writing Level 6 and Math Level 5	3 / 3
ENVR 122	Enviro Sampl & Instrumentation	Reading Level 5 and Writing Level 6 and Math Level 5	4 / 6
ENVR 131	Industrial Process Safety	Reading Level 5 and Writing Level 6 and Math Level 5	3 / 3
PHYS 222	Introductory Physics II	Minimum 2.0 in (PHYS 221 or Department Approval) and Reading Level 5 and Writing Level 6	4 / 6
SCIN 287	Science Technology Internship	Department Approval	2-4 / 2-4
Credits			13-14 / 19-22
Total Credits			62-65 / 79-86