

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Chemical Technology  
Associate in Applied Science Degree

Curriculum Code: 0163 (Effective Fall 2014 – Summer 2019)

Graduates with associate degrees in Chemical Technology are in great demand by the chemical industry. This program prepares students to work with chemists and chemical engineers in many settings. Research, development, and production of pharmaceuticals, agricultural chemicals, and plastics as well as related functions such as sales and technical writing are some of the opportunities that are available to persons with this type of training. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

### PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

### INFORMATION

Contact the Science Department, Arts & Sciences Building, Room 301, telephone number (517) 483-1092 (Website: [www.lcc.edu/science](http://www.lcc.edu/science)) or the Academic Advising Department, Gannon Building, Room 200, telephone number (517) 483-1904.

### REQUIREMENTS

CODE	TITLE	TOTAL: 46 CREDITS CREDIT HOURS
BIOL 127	Cell Biology	4
CHEM 151	General Chemistry Lecture I	4
CHEM 152	General Chemistry Lecture II	3
CHEM 161	General Chemistry Lab I	1
CHEM 162	General Chemistry Lab II	1
CHEM 251	Organic Chemistry Lecture I	4
CHEM 252	Organic Chemistry Lecture II	4
CHEM 262	Quantitative Analysis	3
CHEM 272	Organic Chemistry Laboratory	2
ISCI 275	Advanced Technology Workplace	4
MATH 121	Precalculus I	4
MATH 122	Precalculus II	4
PHYS 221	Introductory Physics I	4
STAT 215	Intro to Probability and Stats	4

### LIMITED CHOICE REQUIREMENTS

TOTAL: 16-17 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

#### CHOICE 1: [General Education Core Areas](#)

0 Credits

(Complete one choice from each Subchoice. Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	0
Global Perspectives and Diversity Core Area	0
Mathematics Core Area (See Note 1)	0
Science Core Area (See Note 1)	0
Writing Core Area	0

<b>Subchoice 1A: Communication Core Area</b>		<b>3 Credits</b>
SPCH 120	Dynamics of Communication	3
SPCH 130	Fund of Public Speaking	3
<b>Subchoice 1B: Global Perspectives and Diversity Core Area</b>		<b>3 – 4 Credits</b>
ECON 120	Power, Authority and Exchange	4
ECON 260	Comparative Economic Systems	3
GEOG 200	World Regional Geography	4
HUMS 213	World Civilizations to 1600	4
HUMS 214	World Civilizations from 1600	4
PHIL 211	Philosophy: Ancient & Medieval	4
PHIL 212	Philosophy: Modern & Contemptry	4
POLS 260	Comparative Political Systems	3
SOCL 120	Introduction to Sociology	4
<b>Subchoice 1C: Writing Core Area (See Note 2)</b>		<b>4 Credits</b>
ENGL 122	Writ About Literature & Ideas	4
WRIT 121	Composition I	4
WRIT 131	Honors Composition I	4
WRIT 122	Composition II	4
WRIT 132	Honors Composition II	4
<b>CHOICE 2: Related Courses</b>		<b>6 Credits</b>
BIOL 203	Microbiology	3
BIOL 204	Microbiology Laboratory	1
ENVR 122	Enviro Sampl & Instrumentation	4
ENVR 121	Environmental Rules and Regs	3
ENVR 131	Industrial Process Safety	3
PHYS 222	Introductory Physics II	4
SCIN 287	Science Technology Internships	2-4
<b>MINIMUM TOTAL</b>		<b>62</b>

**NOTES:**

1. Students completing "REQUIREMENTS" have fulfilled the requirement for this core area.
2. WRIT 122 is strongly recommended if transferring to MSU or other 4-year university.
3. A 2.0 grade or higher is required in all courses used to satisfy this degree.

**SUGGESTED COURSE SEQUENCE**

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I	II	III	IV
BIOL 127	CHEM 152	CHEM 251	CHEM 252
CHEM 151	CHEM 162	CHEM 262	CHEM 272
CHEM 161	MATH 122	ISCI 275	PHYS 221
MATH 121	Lim.Ch.1	STAT 215	Lim.Ch.2
Lim.Ch.1	Lim.Ch.2	Lim.Ch.1	