

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Chemical Technology  
Associate in Applied Science Degree

Curriculum Code: 0163 (Effective Fall 2011 – Summer 2016)

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* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section 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 212, telephone number (517) 483-1904.

### REQUIREMENTS

CODE	TITLE	TOTAL: 49 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 211	Chemical Process Technology I	4
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 170	Introduction to Statistics	3

### LIMITED CHOICE REQUIREMENTS

TOTAL: 16-17 CREDITS

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

**CHOICE 1: General Education Core Areas** (Complete one choice from each Subchoice)

10 – 11 Credits

(See *General Education Core Requirements* for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	3
Global Perspectives and Diversity Core Area	3 – 4
Mathematics Core Area (See Note 1)	4
Science Core Area	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 131 Industrial Process Safety	3
NANO 130 Introduction to Nanotechnology	4
PHYS 222 Introductory Physics II	4
SCIN 287 Science Technology Internship	4
<b>MINIMUM TOTAL</b>	<b>65</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.

**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.

<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
BIOL 127	CHEM 152	STAT 170	CHEM 251	CHEM 211
CHEM 151	CHEM 162	Lim.Ch.1	CHEM 262	CHEM 252
CHEM 161	ISCI 275	Lim.Ch.2	MATH 122	CHEM 272
MATH 121	Lim.Ch.2		Lim.Ch.1	PHYS 221
Lim.Ch.1				