

## LANSING COMMUNITY COLLEGE

### CURRICULUM GUIDE

Chemical Process Technology  
Associate in Applied Science Degree

Curriculum Code: 0859 (Effective Fall 2011 – Summer 2016)

Chemical Process Technicians are trained for employment as process operators in the chemical and related industries. Process operators are required to maintain safety, health and environmental standards in the plant; handle, store and transport chemicals; operate, monitor and control continuous and batch processes; and participate in routine and preventative maintenance of equipment and instrumentation. **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: 31 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 182	Introductory Organic Chemistry	3
CHEM 192	Intro Organic Chem Lab	1
CHEM 211	Chemical Process Technology I	4
CHEM 262	Quantitative Analysis	3
ISCI 275	Advanced Technology Workplace	4
STAT 170	Introduction to Statistics	3

#### LIMITED CHOICE REQUIREMENTS

TOTAL: 32-33 CREDITS

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

#### CHOICE 1: General Education Core Areas

14 – 15 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 (See Note 1)	3
Global Perspectives and Diversity Core Area (See Note 1)	3 – 4
Mathematics Core Area (See Note 2)	4
Science Core Area (See Note 3)	0
Writing Core Area (See Note 1)	4

<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 Diverstiy 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 and Contemptry	4
POLS 260 Comparative Political Systems	3
SOCL 120 Introduction to Sociology	4
<b>Subchoice 1C: Writing Core Area (See Note 4)</b>	<b>4 Credits</b>
ENGL 122 Writ About Literature & Ideas	4
WRIT 121 Composition I	4
WRIT 122 Composition II	4
WRIT 131 Honors Composition I	4
WRIT 132 Honors Composition II	4
<b>CHOICE 2: Math (See Note 5)</b>	<b>4 Credits</b>
MATH 120 College Algebra	4
MATH 121 Precalculus I	4
<b>CHOICE 3: Physics</b>	<b>4 Credits</b>
PHYS 200 Intro Physics With Application	4
PHYS 221 Introductory Physics I	4
<b>CHOICE 4: Related Courses</b>	<b>10 Credits</b>
ELTE 102 Industrial/Construction Safety	2
ELTE 110 Practical Electricity	3
ENVR 122 Enviro Sampl & Instrumentation	4
METM 190 Metallurgy and Heat Treatment	4
METS 120 Industrial Pneumatics	3
METS 130 Industrial Hydraulics	4
NANO 130 Introduction to Nanotechnology	4
SCIN 287 Science Technology Internship	4
<b>MINIMUM TOTAL</b>	<b>63</b>

**NOTES:**

1. Students completing "CHOICE 1" have fulfilled the requirements for this Core area.
2. Students completing "CHOICE 2" have fulfilled the requirements for this Core area.
3. Students completing "REQUIREMENTS" have fulfilled the requirement for this Core area.
4. WRIT 122 is strongly recommended for students planning to transfer to a four year university.
5. MATH 121 is recommended for students planning to transfer.

### 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 262	CHEM 182
CHEM 151	CHEM 162	STAT 170	CHEM 192
CHEM 161	ISCI 275	Lim.Ch.1	CHEM 211
Lim.Ch.4	Lim.Ch.2	Lim.Ch.4	Lim.Ch.1
Lim.Ch.1	Lim.Ch.3		Lim.Ch.4