

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Chemical Process Technology
Associate in Applied Science Degree

Curriculum Code: 0859 (Effective Fall 2009 – Summer 2014)

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 or counselor 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 and Sciences Building, Room 301, telephone number (517) 483-1092 (Website: www.lcc.edu/science) or Counseling and Advising Center, Gannon Building, Room 204, telephone number (517) 483-1904.

REQUIREMENTS

CODE	TITLE	TOTAL: 36 CREDITS CREDIT HOURS
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
CPSC 120	Introduction to Computers	3
ENVR 131	Industrial Process Safety	3
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	3
STAT 170	Introduction to Statistics	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 24-25 CREDITS

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

CHOICE 1: General Education Core Areas

0 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)	0
Global Perspectives and Diversity Core Area (See Note 1)	0
Mathematics Core Area (See Note 1)	0
Science Core Area (See Note 1)	0
Writing Core Area (See Note 2)	0

CHOICE 2: Writing (See Note 3)	3–4 Credits
WRIT 121 Composition I	4
WRIT 124 Technical Writing	3
CHOICE 3: Math (See Note 4)	4 Credits
MATH 120 College Algebra	4
MATH 121 Precalculus I	4
CHOICE 4: Physics	4 Credits
PHYS 200 Intro Physics With Application	4
PHYS 221 Introductory Physics I	4
CHOICE 5: Related Courses	13 Credits
ELTE 102 Industrial/Construction Safety	2
ELTE 110 Practical Electricity	3
ENVR 121 Environmental Rules and Regs	3
ENVR 122 Enviro Sampl & Instrumentation	4
FIRE 220 Hazardous Materials/Fire Svc	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
MINIMUM TOTAL	60

NOTES:

1. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
2. Students completing CHOICE 2 have fulfilled the requirements for this Core area.
3. WRIT 121 is recommended for students planning to transfer.
4. 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 or counselor for help with adjustments.

I	II	III	IV
CHEM 151	CHEM 152	CHEM 262	CHEM 182
CHEM 161	CHEM 162	STAT 170	CHEM 192
CPSC 120	SOCL 120	Lim. Ch. 4	CHEM 211
Lim. Ch. 2	SPCH 120	Lim. Ch. 5	ENVR 131
Lim. Ch. 3	Lim. Ch. 5	Lim. Ch. 5	Lim. Ch. 5