

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Chemical Process Technology
Associate in Applied Science Degree

Curriculum Code: 0859 (Effective Fall 2006 – Summer 2011)

Chemical Process Technologists 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 or Counseling and Advising Centers, Gannon Vocational-Technical Center, Room 204, telephone number (517) 483-1904.

REQUIREMENTS

CODE	TITLE	TOTAL: 40 CREDITS CREDIT HOURS
CHEM151	General Chemistry Lecture I	4
CHEM152	General Chemistry Lecture II	3
CHEM161	General Chemistry Lab I	1
CHEM162	General Chemistry Lab II	1
CHEM182	Introductory Organic Chemistry	3
CHEM192	Introductory Organic Chemistry Lab	1
CHEM211	Chemical Process Technology I	4
CHEM262	Quantitative Analysis	3
CPSC120	Introduction to Computers	3
ENVR131	Industrial Process Safety	3
MATH121	College Algebra I	4
SOCL120	Introduction to Sociology	4
SPCH120	Dynamics of Communication	3
STAT170	Introduction to Statistics	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 20-21 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
WRIT121 Composition I	4
WRIT124 Technical Writing	3
CHOICE 3: Physics	4 Credits
PHYS200 Applied Physics	4
PHYS221 Introductory Physics I	4
CHOICE 4: Related Courses	13 Credits
ENVR121 Environmental Rules and Regulations	3
ENVR122 Environmental Sampling & Instrumentation	4
ELTE100 Electrical Safety Practices	1
ELTE110 Practical Electricity	3
FIRE220 Hazardous Materials/Fire Service	4
MFGM112 Industrial Pneumatics	3
MFGM175 Industrial Hydraulics	4
PMMT190 Metallurgy and Heat Treat	4
SCIN287 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. WRIT121 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
CHEM151	CHEM152	CHEM262	CHEM182
CHEM161	CHEM162	STAT170	CHEM192
CPSC120	SOCL120	Lim. Ch. 3	CHEM211
MATH121	SPCH120	Lim. Ch. 4	ENVR131
Lim. Ch. 2	Lim. Ch. 4	Lim. Ch. 4	Lim. Ch. 4