

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Chemical Technology
Associate in Applied Science Degree

Curriculum Code: 0163 (Effective Fall 2009 – Summer 2014)

Graduates with associate degrees in Chemical Technology are much in 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 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

TOTAL: 43 CREDITS
CREDIT HOURS

CODE	TITLE	
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
CPSC 120	Introduction to Computers	3
PHYS 221	Introductory Physics I	4
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	3
STAT 170	Introduction to Statistics	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 21-27 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 2)	0
Science Core Area (See Note 1)	0
Writing Core Area (See Note 3)	0

CHOICE 2: Mathematics (Choose one subchoice)	5–8 Credits
Subchoice 2A	
MATH 121 Precalculus I	4
MATH 122 Precalculus II	4
Subchoice 2B	
MATH 126 Precalculus	5
CHOICE 3: Writing (See Note 4)	3–4 Credits
WRIT 121 Composition I	4
WRIT 124 Technical Writing	3
CHOICE 4: Related Courses	13–15 Credits
BIOL 127 Cell Biology	4
BIOL 203 Microbiology	3
BIOL 204 Microbiology Laboratory	1
ENVR 121 Environmental Rules and Regs	3
ENVR 122 Enviro Sampl & Instrumentation	4
ENVR 131 Industrial Process Safety	3
FIRE 220 Hazardous Materials/Fire Svc	4
NANO 130 Introduction to Nanotechnology	4
PHYS 222 Introductory Physics II	4
SCIN 287 Science Technology Internship	4
WRIT 122 Composition II	4
MINIMUM TOTAL	64

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. Students completing CHOICE 3 have fulfilled the requirements for this Core area.
4. WRIT 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 251	CHEM 211
CHEM 161	CHEM 162	CHEM 262	CHEM 252
SPCH 120	CPSC 120	PHYS 221	CHEM 272
Lim. Ch. 2	STAT 170	SOCL 120	Lim. Ch. 4
Lim. Ch. 3	Lim. Ch. 4	Lim. Ch. 4	Lim. Ch. 4