

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Chemical Technology
Associate in Applied Science Degree

Curriculum Code: 0163 (Effective Fall 2005 – Summer 2010)

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.

REQUIREMENTS

CODE	TITLE	TOTAL: 43 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
CHEM211	Chemical Process Technology I	4
CHEM251	Organic Chemistry Lecture I	4
CHEM252	Organic Chemistry Lecture II	4
CHEM262	Quantitative Analysis	3
CHEM272	Organic Chemistry Laboratory	2
CPSC120	Introduction to Computers	3
PHYS221	Introductory Physics I	4
SOCL120	Introduction to Sociology	4
SPCH120	Dynamics of Communication	3
STAT170	Introduction to Statistics	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 21-26 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)	5–7 Credits
Subchoice 2A	
MATH121 College Algebra I	4
MATH122 College Algebra II and Trigonometry	3
Subchoice 2B	
MATH126 College Algebra and Trigonometry	5
CHOICE 3: Writing (See Note 4)	3–4 Credits
WRIT121 Composition I	4
WRIT124 Technical Writing	3
CHOICE 4: Related Courses	13–15 Credits
BIOL127 Cell Biology	4
BIOL203 Microbiology	3
BIOL204 Microbiology Laboratory	1
ENVR121 Environmental Rules and Regulations	3
ENVR122 Environmental Sampling & Instrumentation	4
ENVR131 Industrial Process Safety	3
FIRE220 Hazardous Materials/Fire Service	4
PHYS222 Introductory Physics II	4
SCIN287 Science Technology Internship	4
WRIT122 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. 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	CHEM251	CHEM211
CHEM161	CHEM162	CHEM262	CHEM252
SPCH120	CPSC120	PHYS221	CHEM272
Lim. Ch. 2	STAT170	SOCL120	Lim. Ch. 4
Lim. Ch. 3	Lim. Ch. 4	Lim. Ch. 4	Lim. Ch. 4