

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Chemistry
Associate in Science Degree

Curriculum Code: 0117 (Effective Fall 2007 – Summer 2012)

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the MACRAO Transfer Agreement between two-year and four-year institutions in Michigan. General education and subject area requirements vary from one college or university to another.

Prior to beginning this curriculum, students should contact the Counseling and Advising Center, Room 204, Gannon Building, telephone number (517) 483-1904, to consult with an academic advisor or counselor and obtain an appropriate transfer guide. They are also available on the web at www.lcc.edu/transfer/guides. Students should also contact the school to which they will transfer for specific transfer institution requirements. (See *Transfer Opportunities* for a list of institutions for which transfer guides are available.)

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: <http://www.lcc.edu/science/>) or Counseling and Advising Center, Gannon Building, Room 204, telephone number (517) 483-1904.

REQUIREMENTS

CODE	TITLE	TOTAL: 22 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
CHEM251	Organic Chemistry Lecture I	4
CHEM252	Organic Chemistry Lecture II	4
CHEM262	Quantitative Analysis	3
CHEM272	Organic Chemistry Laboratory	2

LIMITED CHOICE REQUIREMENTS

TOTAL: 40-48 CREDITS

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

CHOICE 1: General Education MACRAO Requirements

16 Credits

(See *Transfer Information/MACRAO Transfer Agreement* for approved courses in each area.)

English Composition (see Note 1)	0
Science and Mathematics (see Note 2)	0
Social Science (see Note 3)	8
Humanities (see Note 3)	8

CHOICE 2: General Education Core Requirements **0–8 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. Meeting Core with a proficiency test may require additional MACRAO credits.)

Communication Core Area (see Note 3)	0–4
Global Perspectives and Diversity Core Area (see Note 3)	0–4
Mathematics Core Area (see Note 4)	0
Science Core Area (see Note 5)	0
Writing Core Area (see Note 1)	0

CHOICE 3: Writing (Complete one course from each subchoice) **8 Credits**

Subchoice 3A

WRIT121	Composition I	4
WRIT131	Honors Composition I	4

Subchoice 3B

ENGL122	Writing About Literature and Ideas	4
ENGL132	Honors Writing – Literature and Ideas	4
WRIT122	Composition II	4
WRIT132	Honors Composition II	4

CHOICE 4: Mathematics (Complete one course from each subchoice) **8 Credits**

Subchoice 4A

MATH151	Calculus I	4
MATH161	Honors Calculus I	4

Subchoice 4B

MATH152	Calculus II	4
MATH162	Honors Calculus II	4

CHOICE 5: Related Courses **8 Credits**

BIOL127	Cell Biology	4
NANO130	Introduction to Nanotechnology	4
PHYS251	Physics I: Mechanics	5
STAT215	Intro to Probability and Statistics	4

MINIMUM TOTAL **62**

NOTES:

1. Students completing CHOICE 3 have fulfilled the requirements for these MACRAO and Core areas.
2. Students completing “REQUIREMENTS” and CHOICE 4 have fulfilled the requirements for these MACRAO and Core areas.
3. Certain Core courses may also be used to meet MACRAO requirements. See *Transfer Information/LCC Core–MACRAO Crosswalk* for suggested courses.
4. Students completing CHOICE 4 have fulfilled the requirements for this Core area.
5. Students completing “REQUIREMENTS” have fulfilled the requirements for these MACRAO and Core areas.
6. Students considering this degree may also wish to consider the Chemical Technology Associate in Applied Science degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who 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 CHEM161	CHEM152 CHEM162	CHEM251 CHEM262	CHEM252 CHEM272