

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Environmental Technology
Associate in Applied Science Degree

Curriculum Code: 0793 (Effective Fall 2009 – Summer 2014)

Environmental Technicians may work for environmental/engineering consulting firms, local or state regulatory agencies, manufacturers, recycling and waste management companies and local utility and public service (works) departments. They perform tasks such as environmental sample collection and monitoring, instrument calibration, report writing and data management. Environmental Technicians may help clients comply with governmental environmental standards, assist in field investigations, or work as a team member on a waste or contamination site. They use computer skills to work with environmental data as well as the concepts of chemistry, biology, meteorology, geology and hydrology to help professionals determine the movement and effects of environmental contaminants. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor 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: 34 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
ENVR 121	Environmental Rules and Regs	3
ENVR 122	Enviro Sampl & Instrumentation	4
ENVR 131	Industrial Process Safety	3
GEOL 230	Environmental Geology	4
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	3
WRIT 121	Composition I	4

LIMITED CHOICE REQUIREMENTS (See Note 1)

TOTAL: 26 CREDITS

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

CHOICE 1: General Education Core Areas (See Note 2)

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	0
Global Perspectives and Diversity Core Area	0
Mathematics Core Area	0
Science Core Area	0
Writing Core Area	0

CHOICE 2: Biology	4 Credits
BIOL 128 Organismal Biology	4
BIOL 210 Natural Resource Conservation	4
CHOICE 3: Math	4 Credits
MATH 120 College Algebra	4
MATH 121 Precalculus I	4
CHOICE 4: Geographic Information Systems	3 Credits
GRET 203 Beginning MicroStation	3
GRET 205 Principles of GIS	3
GRET 210 Global Positioning Systems	3
GRET 220 Hydrological Systems	3
GRET 255 Beginning ARC/GIS	3
CHOICE 5: Environmentally Related Courses (See Note 3)	15 Credits
BIOL 128 Organismal Biology	4
BIOL 203 Microbiology	3
BIOL 204 Microbiology Laboratory	1
BIOL 210 Natural Resource Conservation	4
BIOL 260 Botany	4
BIOL 287 Tropical Aquatic Systems	4
CHEM 182 Introductory Organic Chemistry	3
CHEM 192 Intro Organic Chem Lab	1
CPSC 120 Introduction to Computers	3
FIRE 220 Hazardous Materials/Fire Svc	4
GRET 203 Beginning MicroStation	3
GRET 205 Principles of GIS	3
GRET 210 Global Positioning Systems	3
GRET 220 Hydrological Systems	3
GRET 255 Beginning ARC/GIS	3
ISCI 275 Advanced Technology Workplace	4
NANO 130 Introduction to Nanotechnology	4
PHYS 200 Intro Physics With Application	4
POLS 120 American Political System	4
SCIN 287 Science Technology Internship	4
STAT 170 Introduction to Statistics	3
MINIMUM TOTAL	60

NOTES:

1. It is strongly recommended that students intending to transfer to four-year institutions meet additional course requirements as outlined in the MACRAO Transfer Agreement (see "Transfer Information"). Students should also consult appropriate Transfer Guides for specific four-year programs (available from Counseling and Advising).
2. Students completing "REQUIREMENTS" have fulfilled the requirements for these Core areas.
3. The GRET course taken to satisfy CHOICE 4 and the Biology course taken to satisfy CHOICE 2 may not also be used to satisfy the requirements for CHOICE 5.

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	ENVR 122	ENVR 121
CHEM 161	CHEM 162	GEOL 230	ENVR 131
WRIT 121	SPCH 120	SOCL 120	Lim. Ch. 5
Lim. Ch. 2	Lim. Ch. 4	Lim. Ch. 5	Lim. Ch. 5
Lim. Ch. 3	Lim. Ch. 5	Lim. Ch. 5	Lim. Ch. 5