

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Environmental Technology
Associate in Applied Science Degree

Curriculum Code: 0793 (Effective Fall 2007 – Summer 2012)

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

REQUIREMENTS

CODE	TITLE	TOTAL: 49 CREDITS CREDIT HOURS
BIOL210	Natural Resource Conservation	4
CHEM151	General Chemistry Lecture I	4
CHEM152	General Chemistry Lecture II	3
CHEM161	General Chemistry Lab I	1
CHEM162	General Chemistry Lab II	1
ENVR121	Environmental Rules and Regulations	3
ENVR122	Environmental Sampling & Instrumentation	4
ENVR131	Industrial Process Safety	3
FIRE220	Hazardous Materials/Fire Service	4
GEOL230	Environmental Geology	4
GRET205	Principles of Geographic Info Systems	3
MATH121	College Algebra I	4
SOCL120	Introduction to Sociology	4
SPCH120	Dynamics of Communication	3
WRIT121	Composition I	4

LIMITED CHOICE REQUIREMENTS (See Note 1)**TOTAL: 14–17 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: Environmentally Related Courses**14–17 Credits**

BIOL128	Organismal Biology	4
BIOL203	Microbiology	3
BIOL204	Microbiology Laboratory	1
BIOL260	Botany	4
BIOL287	Tropical Aquatic Systems	4
CHEM182	Introductory Organic Chemistry	3
CHEM192	Intro Organic Chemistry Lab	1
CPSC120	Introduction to Computers	3
GRET203	Beginning MicroStation	3
GRET210	Global Positioning Systems	3
GRET220	Hydrological Systems	3
GRET255	Beginning ARC/GIS	3
NANO130	Introduction to Nanotechnology	4
PHYS200	Applied Physics	4
POLS120	American Political System	4
SCIN287	Science Technology Internship	4
STAT170	Introduction to Statistics	3

MINIMUM TOTAL**63****NOTES:**

- 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).
- Students completing "REQUIREMENTS" have fulfilled the requirements for these Core areas.

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
BIOL210	CHEM152	ENVR122	ENVR121
CHEM151	CHEM162	GEOL230	ENVR131
CHEM161	GRET205	SOCL120	FIRE220
MATH121	SPCH120	Lim. Ch. 2	Lim. Ch. 2
WRIT121	Lim. Ch. 2	Lim. Ch. 2	Lim. Ch. 2