

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Civil Technology
Associate in Applied Science Degree

Curriculum Code: 0178 (Effective Fall 2009 – Summer 2014)

Civil engineering technicians apply theory and principles of civil engineering in planning, designing, and overseeing the construction and maintenance of structures and facilities in the highway system. They may work at construction or survey sites, offices or in testing labs with engineers, surveyors, supervisors, managers, or skilled trade workers. The successful civil engineering technician must have a working knowledge of college algebra and trigonometry, civil drafting, communications, construction materials, surveying, and must be computer literate. Civil engineering technicians work for construction, engineering, and architecture firms, government agencies, mapping agencies, and private petroleum and mining companies. **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 Environmental, Design and Building Technologies Department, West Campus Building, Room M103, telephone number (517) 483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5510.

REQUIREMENTS

CODE	TITLE	TOTAL: 43 CREDITS CREDIT HOURS
CIVL 100	Intro to Civil Technology	3
CIVL 101	Civil Drafting (See Note 1)	3
CIVL 120	Surveying	4
CIVL 124	Route Survey	4
CIVL 132	Construction Materials	4
CIVL 200	Civil Mathematics	4
CIVL 241	Statics/Strength of Materials	5
CIVL 290	Civil Technology Internship (See Note 3)	2
GRET 203	Beginning MicroStation	3
MATH 114	Technical Math I	4
MATH 115	Technical Math II	4
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 18-24 CREDITS

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

CHOICE 1: General Education Core Areas

9-13 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	3-4
Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area (See Note 2)	0
Science Core Area	3-5
Writing Core Area (See Note 2)	0

CHOICE 2: Civil Technology Specialty (Choose one subchoice) 9–11 Credits

Subchoice 2A: Public Industry Track

CIVL 131	Traffic Technology	3
CIVL 135	Soils Technology	3
CIVL 136	Hydrology & Highway Technology	5

Subchoice 2B: Private Industry Track

CIVL 141	Site Inspection	3
CIVL 142	Construction Specifications	3
CIVL 143	Site Dsgn & Layout/Civil Techn	3

MINIMUM TOTAL 61

NOTES:

1. Basic mechanical drafting skills are necessary for this course and may be demonstrated by a score of 80% or better on the Drafting Placement Test or by passing LAND 100 or METD 100 with a 2.5 minimum grade.
2. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
3. Students will need to talk to a program advisor before enrolling in the Civil Technology Internship. Contact the Environmental, Design and Building Technologies Department at 483-5338.

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
CIVL 100	CIVL 101	GRET 203	CIVL 124
MATH 114	CIVL 120	MATH 115	CIVL 132
Lim.Ch.1	CIVL 200	WRIT 124	CIVL 241
Lim.Ch.2	Lim.Ch.1	Lim.Ch.1	CIVL 290
		Lim.Ch.2	Lim.Ch.2