

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Civil Technology

Associate in Applied Science Degree

Curriculum Code: 0178 (Effective Fall 2015 – Summer 2020)

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 before enrolling in any course.

### PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

### INFORMATION

Contact the Design & Construction Technologies Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: [www.lcc.edu/design/civil/](http://www.lcc.edu/design/civil/)) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

### REQUIREMENTS

**TOTAL: 43 CREDITS**

CODE	TITLE	CREDIT HOURS
CIVL 101	Civil Drafting	3
CIVL 110	Density Certification (See Note 1)	2
CIVL 120	Surveying	4
CIVL 124	Route Survey	4
CIVL 200	Civil Mathematics	4
CIVL 241	Statics/Strength of Materials	4
CIVL 290	Civil Technology Internship (See Note 2)	2
DCTM 100	Intro to the Built Environment	3
DCTM 103	Codes and Specifications	3
GRET 210	Global Positioning Systems	3

MATH 114	Technical Math I	4
MATH 115	Technical Math II	4
WRIT 124	Technical Writing	3

**LIMITED CHOICE REQUIREMENTS**

**TOTAL: 19–24 CREDITS**

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

**CHOICE 1: [General Education Core Areas](#) 10–13 Credits**

(Click the link above 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 3)	0
Science Core Area	4–5
Writing Core Area (See Note 3)	0

**CHOICE 2: Discipline Related 9–11 Credits**

CIVL 131	Traffic Technology	3
CIVL 135	Soils Technology	3
CIVL 136	Hydrology & Highway Technology	5
CIVL 141	Site Inspection	3
CIVL 143	Site Dsgn & Layout/Civil Techn	3

**MINIMUM TOTAL 62**

**NOTES:**

1. This course is only offered for one week between Fall and Spring Semesters from 7:30 to 4:30 p.m. Monday–Thursday.
2. Students will need to talk to a program advisor before enrolling in the Civil Technology Internship. Contact the Design & Construction Technologies Program at (517) 483–5338.
3. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.

**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 for help with adjustments.

<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>
CIVL 101	CIVL 110	CIVL 200	CIVL 241
CIVL 120	CIVL 124	GRET 210	Lim.Ch.1
DCTM 100	MATH 115	Lim.Ch.1	Lim.Ch.1
DCTM 103	WRIT 124	Lim.Ch.2	Lim.Ch.2
MATH 114	Lim.Ch.2		

**V (Summer)**

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CIVL 290