



Civil Technology A.A.S.

Curriculum Code: 0178

Effective: Fall 2019 – Summer 2024

Description

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.

Additional Information

Students who have completed ELTE 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for DCTM 102.

Students will need to talk to a program advisor before enrolling in the Civil Technology Internship.

Contact Information

Contact the Civil Technology Program at the West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

General Education Core Courses, Recommended Choices

(For the full list of options, see [General Education Core](#))

- Communication – *Select one*
 - COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
 - COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
 - COMM 130, Fund of Public Speaking, 3 credits / 3 billing hours

- Global Perspective and Diversity – *Select one*
 - GEOG 200, World Regional Geography, 4 credits / 4 billing hours
 - MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
 - SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

- Math – *Select one*
MATH 115, Technical Math II, 4 credits / 4 billing hours
- Science – *Select one*
BIOL 120, Environmental Science, 4 credits / 6 billing hours
GEOL 230, Environmental Geology, 4 credits / 6 billing hours
ISCI 131, Integrated Physical Science, 4 credits / 6 billing hours
- Writing – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 124, Technical Writing, 3 credits / 3 billing hours

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CIVL 101	Civil Drafting	3 / 4
CIVL 110	Density Certification	2 / 2
CIVL 120	Surveying	4 / 6
CIVL 124	Route Survey	4 / 6
CIVL 131	Traffic Technology	3 / 3
CIVL 135	Soils Technology	3 / 3
CIVL 141	Site Inspection	3 / 3
CIVL 143	Site Dsgn & Layout/Civil Techn	3 / 4
CIVL 241	Statics/Strength of Materials	4 / 5
CIVL 290	Civil Technology Internship	2 / 2
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 102	Industrial/Construction Safety	2 / 3
DCTM 103	Codes and Specifications	3 / 3
GSCI 210	Global Positioning Systems	3 / 4
METS 140	Rigging	3 / 4.5

Total Credit Hours

62-64 credits / 75.5-77.5 billing hours

Recommended Course Sequence

Semester I - Fall	Semester II - Spring
CIVL 101	Math Core
CIVL 120	Writing Core
DCTM 100	CIVL 110
DCTM 102	CIVL 124
DCTM 103	CIVL 141

Semester III – Fall	Semester IV - Spring
Communication Core Global Perspectives and Diversity Core CIVL 131 GSCI 210 METS 140	Science Core CIVL 135 CIVL 143 CIVL 241

Semester V - Summer
CIVL 290