

CONSTRUCTION & MANUFACTURING

CIVIL ENGINEERING TECHNOLOGY

Delivery: Daytime Classes

Start: Fall Semester, Full-Time

OUTCOME

Civil Engineering Technology A.A.S. Degree 60 cr.
Surveying & CAD Drafting Certificate 30 cr.

MAJOR DESCRIPTION

This program incorporates state-of-the-art equipment and software programs in its labs. Working in a diverse field with excellent employment opportunities nationwide, graduates will be involved in all aspects of the construction process including the planning and design as well as project management and inspections of roads, bridges, highways, subdivisions, and conventional energy plants, including wind farms.

WORK ENVIRONMENT

Graduates may land rewarding careers with consulting engineering companies, construction companies, and governmental agencies such as the MN Department of Transportation, or the engineering department of a local municipality.

POTENTIAL JOB TITLES

- Civil Engineering Technician
- Civil Engineering Designer
- Surveyor

SALARY DATA

- Average Wage: \$28.71/hour
- Top Earners: \$33.95/hour

CIVIL ENGINEERING TECHNOLOGY A.A.S. DEGREE

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester 16 cr

CIVL1131	Beginning Surveying	5
CIVL1151	Basic CAD	5
CIVL1251	Soil Mechanics Survey/Materials Testing	3
	General Elective (any MnTC area)	3

First Year - Second Semester 14 cr

CIVL1222	Civil Engineering Technology Drafting	4
CIVL1231	Intermediate Surveying & GPS	5
CIVL1241	Construction Staking	2
CIVL1255	Hydrology and GIS	3

Second Year - First Semester 15 cr

CIVL2120	Construction Inspection	3
CIVL2131	Land Survey	2
CIVL2155	Eco-Sensitive Design	1
CIVL2162	Project Management	2
CIVL2970	Internship.	3
MATS1300	College Algebra.	4

Second Year - Second Semester 15 cr

CIVL2211	Project Design: Utilities Design, Road Design, Grading	3
CIVL2221	Properties of Construction Materials.	2
CIVL2241	Estimating	2
ENGL1150	Composition I.	3
MATS1320	College Trigonometry	2
SPEE1020	Interpersonal Communication.	3

TOTAL PROGRAM CREDITS 60

SURVEYING & CAD DRAFTING

CERTIFICATE

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DAKOTA COUNTY
TECHNICAL COLLEGE

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