

# CONSTRUCTION & MANUFACTURING

## CIVIL ENGINEERING TECHNOLOGY

**Delivery:** On campus afternoon classes

**Start:** Fall Semester, Full-Time

### AWARDS

Civil Engineering & Land Survey Technology A.A.S. Degree . . .60 cr.

Civil Engineering & Land Survey Technology 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

See latest data at [careerwise.minnstate.edu](https://careerwise.minnstate.edu).

- Average Wage: \$35.96/hour
- Top Earners: \$47.08/hour

### ADDITIONAL INFORMATION

Scan the QR code for more program information and specific program costs; some courses may have additional lab or instructional fees.



### CIVIL ENGINEERING & LAND SURVEY TECHNOLOGY A.A.S. DEGREE

*This is a suggested sample course sequence.*

*Please contact your program advisor regarding your academic plans.*

#### First Year - Fall Semester 15 cr

CIVL1131	Beginning Surveying . . . . .	5
CIVL1151	Basic CAD . . . . .	5
CIVL1251	Soil Mechanics Survey/Materials Testing . . . . .	3
	General Elective (any MnTC area) <i>INDS1020 recommended</i> . . . . .	2

#### First Year - Spring Semester 17 cr

CIVL1222	Civil Engineering Technology Drafting . . . . .	4
CIVL1231	Intermediate Surveying & GPS . . . . .	5
CIVL1242	Construction Surveying. . . . .	2
CIVL1256	Hydrology . . . . .	1
CIVL1257	UAV/Drone Photogrammetry . . . . .	1
MATS1340	Math for Engineering Technology . . . . .	4

#### Second Year - Fall Semester 15 cr

CIVL2121	Construction Inspection & Project Management. . . . .	4
CIVL2132	Land Survey . . . . .	3
CIVL2133	Subdivision Plat Drafting . . . . .	1
CIVL2155	Eco-Sensitive Design . . . . .	1
CIVL2970	Internship. . . . .	3
	General Elective (any MnTC area) . . . . .	3

#### Second Year - Spring Semester 13 cr

CIVL2211	Project Design . . . . .	3
CIVL2221	Properties of Construction Materials. . . . .	2
CIVL2241	Estimating . . . . .	2
COMS1020	Interpersonal Communication. . . . .	3
ENGL1150	Composition I. . . . .	3

**TOTAL PROGRAM CREDITS 60**

# CIVIL ENGINEERING & LAND SURVEY TECHNOLOGY CERTIFICATE

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## First Year - Fall Semester 17 cr

CIVL1131	Beginning Surveying .....	5
CIVL1151	Basic CAD .....	5
CIVL1251	Soil Mechanics Survey/Materials Testing .....	3
	General Elective (any MnTC area) <i>INDS1020 recommended</i> .....	4

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**TOTAL PROGRAM CREDITS 30**



**DAKOTA COUNTY**  
**TECHNICAL COLLEGE**

A member of Minnesota State

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**DCTC IS AN AFFIRMATIVE ACTION, EQUAL OPPORTUNITY EMPLOYER/EDUCATOR.**

This information is available in an alternate format by calling 651-423-8469 or TTY/Minnesota Relay at 1-800-627-3529.