CIVIL ENGINEERING TECHNOLOGY

Delivery: Daytime 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.
• Average Wage: $30.42/hour
• Top Earners: $40.20/hour

CIVIL ENGINEERING & LAND SURVEY TECHNOLOGY
A.A.S. DEGREE
This is a sample course sequence.
Please contact your program advisor regarding your academic plans.

First Year - First Semester 15 cr
CIVL1131 Beginning Surveying ........................................ 5
CIVL1151 Basic CAD ...................................................... 5
CIVL1251 Soil Mechanics Survey/Materials Testing ............ 3
General Elective (any MnTC area) ................................. 2
INDS1020 recommended .............................................

First Year - Second Semester 17 cr
CIVL1222 Civil Engineering Technology Drafting ............... 4
CIVL1231 Intermediate Surveying & GPS ....................... 5
CIVL1242 Construction Staking ..................................... 2
CIVL1256 Hydrology ..................................................... 1
CIVL1257 UAV/Drone Photogrammetry .......................... 1
MATS1340 Math for Engineering Technology .................. 4

Second Year - First 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 - Second Semester 13 cr
CIVL2211 Project Design ............................................. 3
CIVL2221 Properties of Construction Materials ............... 2
CIVL2241 Estimating .................................................. 2
ENGL1150 Composition I ........................................... 3
SPEE1020 Interpersonal Communication ........................ 3

TOTAL PROGRAM CREDITS 60
# CIVIL ENGINEERING & LAND SURVEY TECHNOLOGY

## CERTIFICATE

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**TOTAL PROGRAM CREDITS 30**