



Civil Engineering Technology AAS - 60 credits

Program Area: Civil Engineering (Fall 2016)

*****REMEMBER TO REGISTER EARLY*****

Program Description

This program prepares students for many career opportunities in the transportation field including: Surveying, Roadway Design, Computer Aided Design, and Construction. Coursework emphasizes practical applications of basic engineering and surveying principles with special attention on math, drafting, surveying, materials, technical engineering science, and computer-aided design. Typical employers include private surveyors, consulting engineers, state, county and municipal engineering departments, utility companies, U.S. Army Corps of Engineers, and other federal agencies.

Program Outcomes

- Determine accuracy of their surveying level work
- Verify the accuracy of their total station data
- Perform standard survey calculations
- Develop Site and Highway plan sets
- Research related information in both print and electronic formats
- Set-up and create drawings using CAD

Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English, mathematics, and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

English/Reading:

- A score of 78 or higher on the reading comprehension portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0955 may be taken concurrently with Semester I coursework.

Mathematics:

- A score of 71 or higher on the **Elementary Algebra Skills** portion of the Accuplacer, or
- Completion of MATH 0460 (or equivalent or higher). Math 0460 may be taken concurrently with Semester I coursework

REQUIRED COURSES			
Number	Name	Credits	Term
CETT 1400	Introduction to Civil Engineering Technology	3	
CETT 1402	Introduction to Surveying	3	
CETT 1410*	Introduction to Material Testing**	3	
CETT 1450	Engineering Graphics	4	
CETT 1420*	Route Survey	3	
CETT 1430*	Civil CAD Applications	4	
CETT 1440	Engineering Problem Solving	2	
CETT 2440*	Civil Estimating	3	
CETT 2407	Engineering Technology Internship	1-3	
CETT 2400*	Intermediate Survey	3	
CETT 2410	Stormwater Management	4	
CETT 2430*	Site Development	3	
CETT 2420	Land Survey Systems	3	
CETT 2450*	Highway Design	3	
CETT 2460*	Advanced Survey	3	
MnTC General Education Requirements			
Goal Area 1: Communication (3 credit minimum)		15	
Goal Areas 3: Natural Sciences OR Goal 4: Math (3 credit minimum)			
Goal Areas 5: Social and Behavior Sciences OR Goal 6: Humanities (3 credit minimum)			
Goal Area 1-10: General Education-Other			
TOTAL CREDITS		60	

*Requires a prerequisite or a concurrent course

**Taking three of the following four MnDOT certification courses can be substituted for CETT 1410: CETT 2600 Aggregate Production I; CETT 2610 Grading and Base I; CETT 2630 Bituminous Street I; CETT 2650 Concrete Field I.

For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact a professional advisor, pat@lsc.edu or 218-733-7601



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For more information about the Civil Engineering Technology AAS Degree including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program Website:

<https://degrees.lsc.edu/land-surveyor/>

- or -

Contact Faculty Advisors, Cliff Koski: c.koski@lsc.edu or 218-733-7627;

Jeri Essig: j.essig@lsc.edu or 218-733-7675



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LSC Major ID: 5309

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