Program Description
This AS program prepares students for transfer to earn a Bachelor of Science in Engineering Technology.

Students learn through hands-on training, to become specialists dedicated to the development, design, and implementation of engineering and technology related to positions in construction, manufacturing, product design, testing, or technical services including sales.

Program Outcomes
- Demonstrate safe use of machine tools used in manufacturing such as saws, drill press, engine lathes, milling machines and welding machines
- Demonstrate understanding of mechanical blueprints including orthographic drawings, symbols, and tolerancing
- Demonstrate teamwork in design and manufacture of a working project
- Generate and simulate CAD/CAM toolpaths for various CNC machines
- Utilize computer design programs (CAD) to create three dimensional models, assemblies, animation, and drawings
- Demonstrate understanding various number systems used in digital logic circuits.
- Demonstrate understanding and programming of microcontrollers
- Demonstrate understanding of the basic operation and programming of an industrial Programmable Logic Controller
- Develop an understanding of math and physics concepts related to Engineering Technology

Program Articulation
This program has a transfer agreement in place that allows students to transfer most (if not all) of their credits earned, should the graduate decide to pursue an Engineering Technology bachelor’s degree from Bemidji State University.
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:**
- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may be taken concurrently with Semester I coursework.

**Mathematics:**
- Completion of MATH 0970 - Intermediate Algebra (or equivalent course or higher). MATH 0970 can be taken concurrently with Semester I coursework.

There are other ways to qualify. Visit [Course Placement](lsc.edu/course-placement) to find out more.

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 the professional advising team (advising@lsc.edu) at 218-733-7601

For more information about the Engineering Technology AS Degree including course descriptions, course prerequisites, and potential career opportunities, see the [program website](https://degrees.lsc.edu/)

or

Contact Faculty Advisor, Max Udovich (max.udovich@lsc.edu) at 218-733-7732