

Welding Certificate - 24 credits

24

Program Area: Integrated Manufacturing Welding (Fall 2025)

REMEMBER TO REGISTER EARLY

Program Description

The certificate is designed to provide a basic working knowledge of Integrated Manufacturing, and/or enhance the education of a student who may come in contact with Welding, Machine Tool, and Engineering CAD Technology through another related technical field of study.

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Program Outcomes

- Demonstrate the proper use of various saws
- Use basic safety skills
- Calculate and set RPMs
- Use four-jaw chuck, turn between centers, and cut tapers
- Drill and bore holes

Required Courses			
Number	Name	Credits	Term
CADE 1468*	Solidworks I	3	
INMG 1400	Introduction to Manufacturing Technology	4	
INMG 1410*	Mechanical Print Reading	3	
MTCC 1600	Engineering Materials	1	
WLDG 1560	Gas Metal Arc Welding	3	
WLDG 1520	Gas Tungsten Arc Welding I	3	
WLDG 1540	Shielded Metal Arc Welding	3	
MTCC 1603*	Turning	2	
MTCC 2500*	CNC Mill Conversational	2	

Total Credits

*Requires a prerequisite or a concurrent course

- Use edge finder
- Square work piece
- Cut pipe threads
- Cut acme threads
- Program using conversational language
- Set up and run parts

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/READ 0955 Read/Write College Prep: Advanced, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0950 may be taken concurrently with Semester I coursework.

Mathematics:

• A score of 250 or higher on the Arithmetic portion of the Accuplacer.

There are other ways to qualify. Visit <u>Course Placement</u> (https://www.lsc.edu/course-placement/) to find out more.



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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 <u>professional advising team</u> (advising@lsc.edu) or 218-733-7601

For more information about the Welding Certificate including course descriptions, course prerequisites, the program report, and potential career opportunities, see the <u>program website</u> (https://www.lsc.edu/degrees/welding-certificate/)

or

Contact Faculty Advisor Matthew Farchmin (matthew.farchmin@lsc.edu) at 218-733-6907



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All courses in diploma and/or certificate programs are acceptable for credit toward Lake Superior College degree programs as indicated on individual program planners. This is not a contract; Lake Superior College reserves the right to change the planner as necessary. This document is available in alternative formats upon request, by contacting <u>Student Accessibility Services</u> or (218) 733-7650 or MRS/TTY (800) 627-3529.