



## Welding Technologist Diploma - 32 credits

Program Area: Integrated Manufacturing Welding (Fall 2019)

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

### Program Description

The Welding Technologist Diploma is a one-year program designed to provide an intermediate career pathway in manufacturing, specific to the field of Welding Technology. This 32 credit Diploma is designed to prepare the student for employment as an entry to intermediate level welding or fabrication technologist. This program allows students to gain the information needed to develop skills used in the welding industry. This program covers introductory GMAW, GTAW, FCAW, SMAW, and OXY/Fuel welding processes. Instruction includes classroom lectures and demonstrations, as well as hands-on projects in a lab setting.

*This 32-credit Diploma seamlessly transfers to the Welding Diploma (65 credits).*

*Most of the courses in the INMG Welding Technologist Diploma are offered on-site in a lab setting with some of the courses offered online.*

### Program Outcomes

- Demonstrate proper welder use and safety
- Interpret welding blueprints and drawings
- Interpret weld symbols
- Demonstrate proper welding processes
- Demonstrate cutting process
- Demonstrate various weld transfers
- Select base metals with weld-ability
- Demonstrate weld and setup using GTAW
- Demonstrate weld and setup using GMAW
- Demonstrate proper GMAW wire selection
- Demonstrate proper fabrication layout
- Prepare student for welding certification

### Required Courses

Number	Name	Credits	Term
CADE 1468	Solidworks I	3	
WLDG 1560	Gas Metal Arc Welding	3	
INMG 1410	Mechanical Blueprint	3	
INMG 1420	Design Application Concepts I	3	
INMG 1400	Intro to Manufacturing Technology	4	
WLDG 1500	Blueprint Reading for Welders	3	
WLDG 1520	Gas Tungsten Arc Welding I	3	
WLDG 1540	Shielded Metal Arc Welding I	3	
INMG 1422* or WLDG 1550*	Design Application Concepts II or CNC Plasma and Cutting Processes	3	
WLDG 1570*	Flux Cored Arc Welding I	3	
COMM 1601	Interviewing Processes and Procedures	1	

**Total Credits** **32**

\*Requires a prerequisite or a concurrent course



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### Pre-program Requirements

To begin your career in Welding Technology, you need to be at a specific skill level in English/reading and mathematics.

#### 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 33 or higher on the Elementary Algebra Skills portion of the Accuplacer, or
- Completion of MATH0520 (or equivalent course or higher), and with a grade of "C" or better. MATH 0520 may be taken concurrently with Semester I coursework.

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](mailto:pat@lsc.edu) (pat@lsc.edu) or 218-733-7601

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For specific information about the Welding Technologist Diploma, including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see [program website](https://www.lsc.edu/transfer-degrees/) (https://www.lsc.edu/transfer-degrees/)

- OR -

Contact Faculty Advisor, [Jay Vittone](mailto:j.vittone@lsc.edu) (j.vittone@lsc.edu) or 218-733-7705



MINNESOTA STATE

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