

## Welding Certificate - 24 credits

Program Area: Integrated Manufacturing Welding (Fall 2019)

#### \*\*\*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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## **Required Courses**

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

### **Total Credits**

24

### **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

- 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:

- 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 0950 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 MATH 0520 (or equivalent course or higher). MATH 0520 may be taken concurrently with Semester I coursework.

<sup>\*</sup>Requires a prerequisite or a concurrent course



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For more information about the Welding Certificate including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see the <a href="mailto:program website">program website</a> (https://degrees.lsc.edu/welding-certificate/)

or

Contact Faculty Advisors <u>Jay Vittone</u> at 218-733-7705 or <u>Matthew Farchmin</u> at 218-733-6907



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LSC Major ID: 6110

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