

# Welding

## 2021-22

### Program map for Welding Certificate of Proficiency (COP)

The welding certificate program helps prepare the student for employment in manufacturing or maintenance.

See also:

- [Degree Requirements for Manufacturing, Trades and Transportation programs](#)
- [Course descriptions in LCC Catalog](#)
- [Distribution lists in LCC Catalog](#)

***Please note that many course sequences only begin in fall quarter. Please check with your program advisor for more information.***

***Please review both the "By Quarter Overview" and "Detailed Class Sequence" tabs below.***

## By Quarter Overview

### First Quarter

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- COLL 101: College Success 101 (2 credits)
- MATH 106: Industrial Mathematics (5 credits)
  - *MATH 079 or TECH 079 with a C or better or instructor permission\**
- WELD 141: SMAW - Stick Welding with E7018 (10 credits)

*\*Pre- and/or co-requisite(s)*

### Second Quarter

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- BLPT 160: Blueprint Reading for Welders (5 credits)
  - *MATH 106 or higher or instructor permission\**
- CS 110: Introduction to Microcomputer Applications (3 credits)
  - *Ability to use keyboard\**
- WELD 241: FCAW-G- Dual Shield Wire Feed Welding with E71T-1 (10 credits)

*\*Pre- and/or co-requisite(s)*

### Third Quarter

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- ENGL 110: Industrial Communication (5 credits)
- WELD 158: Welding Theory and Fabrication (5 credits)
  - *WELD 125 and 131 or instructor permission\**

- WELD 243: Advanced DCAW-G and Other Wire Feed Welding Process - WABO (6 credits)
  - WELD 241 or instructor permission\*

*\*Pre- and/or co-requisite(s)*

## **Fourth Quarter**

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- BUS 144: Management of Human Relations: DIV (5 credits)
- HLTH 105: First Aid, CPR and Bloodborne Pathogens (1 credit)
- MFG 105: Industrial Safety (3 credits)

## **Detailed Class Sequence**

### **1. College Success 101**

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COLL 101 (2 credits)

### **2. Industrial Mathematics**

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MATH 106 (5 credits)

*Pre- and/or co-requisite(s): MATH 079 or TECH 079 with a C or better or instructor permission*

### **3. SMAW - Stick Welding with E7018**

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WELD 141 (10 credits)

### **4. Blueprint Reading for Welders**

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BLPT 160 (5 credits)

*Pre- and/or co-requisite(s): MATH 106 or higher or instructor permission*

### **5. Introduction to Microcomputer Applications**

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CS 110 (3 credits)

*Pre- and/or co-requisite(s): Ability to use keyboard*

### **6. FCAW-G- Dual Shield Wire Feed Welding with E71T-1**

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WELD 241 (10 credits)

### **7. Industrial Communication**

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ENGL 110 (5 credits)

### **8. Welding Theory and Fabrication**

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WELD 158 (5 credits)

*Pre- and/or co-requisite(s): WELD 125 AND 131 or instructor permission*

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## **9. GMAW – Solid Wire Feed Welding with ER70S-6 and ER5356**

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WELD 243 (6 credits)

*Pre- and/or co-requisite(s): WELD 241 or instructor permission\**

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## **10. Management of Human Relations: DIV**

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BUS 144 (5 credits)

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## **11. First Aid, CPR and Bloodborne Pathogens**

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HLTH 105 (1 credit)

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## **12. Industrial Safety**

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MFG 105 (3 credits)

## **Program Maps for Manufacturing, Trades and Transportation**

- Advanced Manufacturing Technology - AAS (Engineering Technician and Multicraft Trades Option)
- Advanced Manufacturing Technology - AAS (Multicraft Trades and Production Technician Option)
- Advanced Manufacturing Technology - AAS (Production Technician and Engineering Technician Option)
- Automotive Technology - AAS
- Automotive Technology - COP
- Commercial Truck Driving - COC
- Computer Numerical Control - COP
- Diesel/Heavy Equipment Technology - AAS
- Diesel/Heavy Equipment Preventative Maintenance - COP
- Engineering Technician - COP
- Machine Trades - AAS
- Machinist - COP
- Multicraft Trades - COP
- Production Technician - COP
- Welding - AAS
- Welding - COP