

Welding, Certificate

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Award Granted Upon Completion: Certificate in Welding

Credits/Contacts Required: **33/45**

Major code: 04/485

2023-2024 Catalog

CIP Code: 480508

Description

This program provides the student with specialized classroom and shop experiences concerned with all types of metal welding, brazing, and flame cutting. The Certificate Program provides individuals with a wide array of skills applicable to construction welding, ship building, fitting, and industrial and production welding.

Equipment: Students are required to purchase safety glasses, gloves, cutting goggles, leather boots, helmet, striker, pliers, tip cleaners, and to wear overalls or denim type clothing.

Certificate Requirements (Min 33 Credits)

- MATH 102 - Introduction to Technical Math **Credit(s): 4**
- TECH 100 - Basic Machine Tool Operation **Credit(s): 4**
- TECH 101 - Blueprint Reading **Credit(s): 2**
- TECH 105 - Materials of Industry **Credit(s): 4**
- WELD 110 - Metal Processing Fundamentals **Credit(s): 3**
- WELD 120 - Arc Welding **Credit(s): 4**
- WELD 210 - Advanced Arc Welding **Credit(s): 4**
- WELD 220 - Gas Metal Arc Welding (MIG) **Credit(s): 4**
- WELD 260 - Gas Tungsten Arc Welding (TIG) **Credit(s): 4**

Suggested Sequences Per Semester

First Semester

- MATH 102 - Introduction to Technical Math **Credit(s): 4**
- TECH 101 - Blueprint Reading **Credit(s): 2**
- WELD 110 - Metal Processing Fundamentals **Credit(s): 3**
- WELD 120 - Arc Welding **Credit(s): 4**
- WELD 220 - Gas Metal Arc Welding (MIG) **Credit(s): 4**

First Semester Total - Credit(s): 17 | Contacts: 23

Second Semester

- TECH 100 - Basic Machine Tool Operation **Credit(s): 4**
- TECH 105 - Materials of Industry **Credit(s): 4**
- WELD 210 - Advanced Arc Welding **Credit(s): 4**
- WELD 260 - Gas Tungsten Arc Welding (TIG) **Credit(s): 4**

Second Semester Total - Credit(s): 16 | Contacts: 22

Note(s)

The following classes are not part of the certificate program, but could be available on an individual or limited basis for those students intending to specialize in pipe welding.

- WELD 240 - Basic Pipe Welding **Credit(s): 4**
- WELD 280 - Advanced Pipe Welding **Credit(s): 4**