

Welding III**One Semester (1 credit)**

Book: Modern Welding
Althouse, Turnquist, Bowditch, Bowditch

Course grade is determined accordingly:

Welds	55%
Daily Work	20%
Tests	15%
Worksheets	5%
Housekeeping	5%

Prerequisite: Successful completion of Welding II

This advanced Welding class is designed to further the students knowledge in welding and drafting symbols associated with welding. The student will complete multipass horizontal welds with GMAW, SMAW, GTAW, OXYFUEL.

1. Measurements

A. Reading Micrometer

2. Welding Symbols p. 33 – 49

- A. Welding Symbols
- B. Groove Angle
- C. Groove Weld Size
- D. Length & Pitch of Weld

3. Chemical/Physical Properties of Metals p. 629 – 645

- A. Physical Properties
- B. Iron-Carbon Diagram
- C. Spark Test

4. Smaw – 6011 Horizontal p. 229 – 293

- A. Multi Tee
- B. Multi Butt

- C. Multi Lap
- D. Multi Corner
- E. Pipe/Pipe/Flat

5. Smaw – 7018 Horizontal p. 229 –293

- A. Multi Tee
- B. Multi Lap
- C. Multi Corner
- D. Multi Butt
- E. Pipe/Pipe/Flat

6. Oxy Fuel Welds p. 95 – 158

- A. Corner
- B. Tee
- C. Edge

7. Braze p.95-158

- A. Corner
- A. Tee
- B. Cast Iron

8. Gmaw Horizontal p. 365 – 396

- A. Multi Tee
- B. Corner Multi Butt
- C. Multi Lap
- D. Multi Corner
- E. Pipe/Pipe/Flat

9. Gtaw Horizontal p. 297 – 333

- A. Edge
- B. Butt
- C. Continuous Beads
- D. Tee
- E. Lap
- F. Pipe/Flat

10. Safety

- A. GMAW
- B. GTAW
- C. SMAW
- D. OXYFUEL