

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 III

This advanced Welding class is designed to further the students knowledge in welding and drafting symbols associated with welding. The student will complete single pass vertical and overhead welds with GMAW, SMAW, GTAW, and Plasma cut.

1. Fabrication Problem Solving
2. Measurement and Welding Specific Measurement Tools
3. Reading Drawings, Calculating Weld Sizes
4. Smaw – Vertical Weld Up/Down
 - A. Butt
 - B. Tee
 - C. Corner
 - D. Lap
 - E. Edge
5. Gtaw - Vertical Weld Up/Down
 - A. Butt
 - B. Tee
 - C. Corner
 - D. Lap
 - E. Edge

6. Plasma Cut & Gouge
 - A. 2 ¼ x 2 ¾
 - B. 5 inch 45° Bevel Cut
 - C. 3 inch Circle
 - D. Project

7. Smaw – Overhead
 - A. Plate – 4 x 4 - Fill both sides
 - B. Butt

8. Gmaw – Overhead
 - A. Plate – 4 x 4 - Fill both sides
 - B. Butt

9. Project – Possible

10. Portfolio
Gather Resume, Work History, Project Pictures.