WLD 111 SMAW 1

Course Description: A course on techniques and operations associated with Shielded Metal Arc Welding (SMAW). Topics include SMAW theory and operating principles, all-position welding of groove welds, and fillet welding using electrodes E6010, E6013, and E7018.

Prerequisites(s): WLD 100 **Corequisite(s):** No corequisite

Lecture Hours: 2	Lab Hours: 6	Credit Hours: 4
Lab Fee: $300	Supplemental Fee: $50	Purpose: Raw Materials
☐ Transfer Assurance Guide Course (TAG)	☐ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: □ Web	□ Hybrid	x Classroom
Semesters Offered: x Fall	x Spring	x Summer

Course Primary Text:

Title: Welding Principles and Applications	Edition: 9th
Author(s): Jeffus	
Publisher: Delmar	

Supplemental Materials:

Instructor supplied

Course Outcomes:

1	Students will have understand and use safety practices in all welding techniques
2	Students will have the ability to create structurally sound and visually correct welds using the SMAW process

Course Topics:

Week	Chapter	Topic	Lab/Project
1	3	Shielded Metal Arc Equipment, Setup, and Operation	Lab #1
2	3	Shielded Metal Arc Equipment, Setup, and Operation	*Lab #2*
3	3	Shielded Metal Arc Equipment, Setup, and Operation	*Lab #3*
4	4	Shielded Metal Arc Welding of Plate	*Lab #4*
5	4	Shielded Metal Arc Welding of Plate	*Lab #5*

6	4	Shielded Metal Arc Welding of Plate	*Lab #6*
7	4	Shielded Metal Arc Welding of Plate	*Lab #7*
8	4	Shielded Metal Arc Welding of Plate	*Lab #8*
9	6	Advanced Shielded Metal Arc Welding	*Lab #9*
10	6	Advanced Shielded Metal Arc Welding	*Lab #10*
11	6	Advanced Shielded Metal Arc Welding	*Lab #11*
12	7	Filler Metal Selection	*Lab #12*
13	7	Filler Metal Selection	*Lab #13*
14	7	Filler Metal Selection	*Lab #14*
15	7	Filler Metal Selection	*Lab #15*

Methods of Evaluation/Assessment

Grading:
AWS Written Exams – 20%

Chapter Written Exams – 20%

Lab Assignments – 60%

Course Keeper: Mark Willis

Date Completed: 12/15/18