WLD 210 GTAW Welding

Course Description: A course on techniques and operations associated with Gas Tungsten Arc Welding (GTAW). Topics include: GTAW theory, machines and set-up, GTAW welding on non-ferrous and ferrous metals, and GTAAW all-positions welding.

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 GTAW process

Course Topics:

Week	Chapter	Topic	Lab/Project
1	15	GTAW equipment, Setup, Operation, and Filler Materials	Lab #1
2	15	GTAW equipment, Setup, Operation, and Filler Materials	*Lab #2*
3	15	GTAW equipment, Setup, Operation, and Filler Materials	*Lab #3*
4	15	GTAW equipment, Setup, Operation, and Filler Materials	*Lab #4*

5	16	GTAW on Plate	*Lab #5*
6	16	GTAW on Plate	*Lab #6*
7	16	GTAW on Plate	*Lab #7*
8	16	GTAW on Plate	*Lab #8*
9	16	GTAW on Plate	*Lab #9*
10	16	GTAW on Plate	*Lab #10*
11	16	GTAW on Plate	*Lab #11*
12	16	GTAW on Plate	*Lab #12*
13		Projects	
14		Projects	
15		Projects	

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