

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

WLD 220 Metal Fabrication

Course Description: A course on metal fabrication techniques used in industry. Topics include: thermal cutting; oxy-fuel gas cutting; plasma arc cutting; basic metal fabrication, layout, assembly, and fit-up; and heat distortion effects.

Prerequisites(s): WLD 105 and WLD 115

Corequisite(s): No corequisite

Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Lab Fee: \$150	Supplemental Fee: \$50	Purpose: Raw Materials
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)	<input type="checkbox"/> Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: <input type="checkbox"/> Web	<input type="checkbox"/> 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 read and understand welding blueprints.
3	Students will have the ability to fabricate weldments using a variety of cutting and welding methods.

Course Topics:

Week	Chapter	Topic	Lab/Project
1	23	Fabricating Techniques and Practices	
2	23	Welding Principles & Applications	
3	23	Welding Principles & Applications	Lab #1
4	23	Welding Principles & Applications	Lab #2
5	23	Welding Principles & Applications	Lab #3

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6	16	Welding Principles & Applications	<i>Lab #4</i>
7	16	Welding Principles & Applications	<i>Lab #5</i>
8	16	GTAW on Plate Welding Principles & Applications	<i>Lab #6</i>
9	16	GTAW on Plate	<i>Lab #7</i>
10	16	Welding Principles & Applications	<i>Lab #8</i>
11		Projects	
12		Projects	
13		Projects	
14		Projects	
15		Projects	

Methods of Evaluation/Assessment

Grading:

Lab Assemblies – 70%

Chapter Written Exams – 20%

Attendance/housekeeping – 10%

Course Keeper: Mark Willis

Date Completed: 12/15/18