

CENTER FOR INNOVATIVE TECHNOLOGIES  
MASTER COURSE DOCUMENT

## WLD 260 Weldability of Metals

**Course Description:** A course on properties of metals that affect weldability. Topics include; carbon steels, low alloy steels, tools steels, and stainless steels; cast iron and non-ferrous metals; processes including pre-heating, post-heating, annealing, normalizing, and hardening; repair welding techniques; and Rockwell hardness testing.

**Prerequisites(s):** WLD 100

**Corequisite(s):** No corequisite

Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Lab Fee: \$100	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
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### Course Outcomes:

1	Students will have understand and use safety practices in all welding techniques
2	Students will understand how material type affects the welding process.
3	Students will understand material selection requirements for weldments.

### Course Topics:

Week	Chapter	Topic	Lab/Project
1	26	Welding Metallurgy	
2	26	Welding Metallurgy	
3	26	Welding Metallurgy	Lab #1
4	26	Welding Metallurgy	Lab #2
5	27	Weldability of Metals	Lab #3

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6	27	Weldability of Metals	<i>Lab #4</i>
7	27	Weldability of Metals	<i>Lab #5</i>
8	27	Weldability of Metals	<i>Lab #6</i>
9	27	Weldability of Metals	<i>Lab #7</i>
10	27	Weldability of Metals	<i>Lab #8</i>
11	27	Weldability of Metals	<i>Lab #9</i>
12		Projects	
13		Projects	
14		Projects	
15		Projects	

**Methods of Evaluation/Assessment**

**Grading:**

Lab Assignments – 60%

Chapter Written Exams – 40%

Course Keeper: Mark Willis

Date Completed: 12/15/18