



## MASTER COURSE OUTLINE

Prepared By: Shawn McDaniel

Date: August 2013

## COURSE TITLE

Advanced Weld Process

## GENERAL COURSE INFORMATION

Dept.: WLD

Course Num: 264

(Formerly:)

CIP Code: 48.0508

Intent Code: 21

Program Code: 814

Credits: 3

Total Contact Hrs Per Qtr.: 66

Lecture Hrs:

Lab Hrs:66

Other Hrs:

Distribution Designation:

## COURSE DESCRIPTION (as it will appear in the catalog)

An advanced course focusing on student learning of welding processes such as pulsed gas metal arc, pulsed gas tungsten arc, and welding on advanced materials i.e., titanium and inconel

## PREREQUISITES

WLD 262 or Instructor Permission

## TEXTBOOK GUIDELINES

Text and materials as decided by welding faculty. (Example: *Modern Welding Technology* by Howard Cary)

## COURSE LEARNING OUTCOMES

*Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills.*

1. The student will be familiar with applying advanced welding techniques within a production setting.

## INSTITUTIONAL OUTCOMES

## COURSE CONTENT OUTLINE

At the completion of the course, the student will display the skills to perform the following:

- Apply pulsed gas metal arc welding to meet applicable codes on:
  - a. Aluminum
  - b. Mild steel
  - c. Stainless steel
- Apply pulsed gas tungsten on welding to meet applicable codes on:
  - a. Aluminum
  - b. Mild steel
  - c. Stainless steel
  - d. Titanium

## DEPARTMENTAL GUIDELINES (optional)

Grades will be calculated as follows:

50% Based on completing all course competencies.

50% Based on Lab Participation, Cleanup on a daily basis, and following ALL Safety rules.

The grade awarded for the class is as follows:

95-100	4.0	86	3.1	77	2.2	68	1.3
94	3.9	85	3.0	76	2.1	67	1.2
93	3.8	84	2.9	75	2.0	66	1.1
92	3.7	83	2.8	74	1.9	65	1.0
91	3.6	82	2.7	73	1.8	60-64	0.7
90	3.5	81	2.6	72	1.7	0-59	0
89	3.4	80	2.5	71	1.6		
88	3.3	79	2.4	70	1.5		
87	3.2	78	2.3	69	1.4		

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**DIVISION CHAIR APPROVAL**

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**DATE**