



MASTER COURSE OUTLINE

Prepared By: Shawn McDaniel

Date: August 2013

COURSE TITLE

Welding Theory II

GENERAL COURSE INFORMATION

Dept.: WLD

Course Num: 120

(Formerly:)

CIP Code: 48.0508

Intent Code: 21

Program Code: 814

Credits: 5

Total Contact Hrs Per Qtr.: 55

Lecture Hrs:55

Lab Hrs:

Other Hrs:

Distribution Designation:

COURSE DESCRIPTION (as it will appear in the catalog)

Fundamentals of G.M.A.W. and F.C.A.W. processes with their related equipment. Basics of electrical theory and welding machines. Shielding gasses, filler materials, and general welding procedures including carbon steel, stainless steel, and aluminum.

PREREQUISITES

WLD 110 or Instructor Permission

TEXTBOOK GUIDELINES

Text and materials as decided by welding faculty. (Example Modern Welding Technology, Sixth Edition, 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 gain a knowledge of the use and application of GMAW and FCAW/MCAW of in the welding industry.
2. The student will understand basic theory of electrical principles in welding.
3. The student will understand the wide range of welding equipment used in the industry.
4. The student will understand the principles and nomenclature of a variety of arc welding electrodes.
5. The student will understand the gasses used in the welding industry.

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE

1. See above

DEPARTMENTAL GUIDELINES (optional)

There will be four major tests during the quarter. These tests will be 2/3 of your total grade for the class.

Projects, assignments, and review questions will make up the final 1/3 of your grade.

Tests, projects, assignments, and review questions will be scored on a point basis with a percentage of points for your final grade.

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	5.6	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		

DIVISION CHAIR APPROVAL

DATE