



MASTER COURSE OUTLINE

Prepared By: Shawn McDaniel

Date: November 2005

COURSE TITLE

Structural Weld Process II

GENERAL COURSE INFORMATION

Dept.: WLD

Course Num: 243

(Formerly:)

CIP Code: 48.0508

Intent Code: 21

Program Code: 814

Credits: 6

Total Contact Hrs Per Qtr.: 132

Lecture Hrs:

Lab Hrs:132

Other Hrs:

Distribution Designation:

COURSE DESCRIPTION (as it will appear in the catalog)

A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on large outdoor structural weldments in accordance with drawings

PREREQUISITES

WLD 241 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. Familiar with techniques used in the welding and fabrication of structures using standard construction methods..

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE

Using processes called out in the drawings, produce large outdoor structures including column splices, beam to column connections and roof/decking connections in accordance with construction codes, and the following:

- Prepare components as directed in work instructions
- Fit and tack weld using safe fabrication practices
- Apply correct tack welding practices
- Weld assemblies in accordance with designated standards
- Inspect for acceptability

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		

DIVISION CHAIR APPROVAL

DATE