MASTER COURSE OUTLINE
Prepared By: Shawn McDaniel Date: November 2005

COURSE TITLE
Structural Weld Process III

GENERAL COURSE INFORMATION

Dept.: WLD	Course Num: 245	(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 tubular structural weldments in accordance with drawings.

PREREQUISITES
WLD 243 and WLD 153 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. Students will become familiar with techniques used in the welding and fabrication of tubular structures using standard construction methods.
    a. Generate sub-components for weldments in accordance with drawings and written instructions
    b. Hoist and fit using standard fabrication methods
    c. Weld according to drawings
    d. Assess acceptability of parts produced in accordance with specified codes

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE
Using processes called out in the drawings; produce large outdoor structures including beam to tubular column, tube to tube connections and handrail 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	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		

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DIVISION CHAIR APPROVAL **DATE**