COURSE OUTLINE
Revision: David Weber, August, 2011

DEPARTMENT: Manufacturing Technology
CURRICULUM: Welding Fabrication Technology
COURSE TITLE: Advanced Fabrication II
COURSE NUMBER: WFT 238
TYPE OF COURSE: Vocational Preparatory
COURSE LENGTH: 1 Quarter
CREDIT HOURS: 8
LECTURE HOURS: 33
LAB HOURS: 110
CLASS SIZE: 25
PREREQUISITES: All WFT 100 Level Courses, 227

COURSE DESCRIPTION:

Experiences with a comprehensive group of activities involving all major fabrication areas including design and development, estimating, layout, cutting (including demonstration of machine torch & Plasma), forming, fit up, tack welding, and product assessment. Fabrication of an approved project of the student’s own design is encouraged.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Human Relations - Use social interactive skills to work in groups, as assigned, to complete minimum skill requirements
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STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

2. Personal Responsibility - Take responsibility for meeting deadlines as assigned. Demonstrate safe shop practices. Take pride in one’s own workmanship per industry standards, courtesy and production level.

3. Communication - Speak and write effectively to communicate formulated action plans for welding

GENERAL COURSE OBJECTIVES:

At the end of the course the student will be able to:

1. Apply and perfect a variety of fabrication skills using critical thinking.
2. Operate OXY-Fuel/Plasma cutting machine torch
3. Fabricate a project of one’s own design with the potential for design, development, and refinement of expert quality workmanship.
4. Work in groups and independently as assigned to develop confidence

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<thead>
<tr>
<th>TOPICAL OUTLINE</th>
<th>APPROX. HOURS</th>
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<tbody>
<tr>
<td>I. Design and development</td>
<td>20</td>
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<tr>
<td>II. Estimating and layout</td>
<td>10</td>
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<tr>
<td>III. Cutting, forming, fit up, production weld, finishing</td>
<td>113</td>
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<td>Total</td>
<td>143</td>
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Detailed Topical Outline is available separately

REVISED BY: D Weber
DATE: August, 2011