

COURSE OUTLINE

Revision: David Weber, August, 2011

DEPARTMENT:	Manufacturing Technology
CURRICULUM:	Welding Fabrication Technology
COURSE TITLE:	Advanced Fabrication I
COURSE NUMBER:	WFT 227
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 classes

COURSE DESCRIPTION:

A project-oriented set of practical exercises that conveys knowledge of all shop equipment along with theory of operation and applications of the: SMAW, GMAW, FCA W, and GTAW processes. Student will also design and create preapproved fabrication project.

STUDENT LEARNING OUTCOMES ADDRESSED:

- I. Communication - Communicate and work in groups to complete minimum skills activities.

WFT 227 Advanced Fabrication I
August, 2011

STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

2. Personal Responsibility - Tack, production weld, and finish as required for assigned activities. Demonstrate consistent safe work habits including citizenship. Demonstrate consistent quality workmanship per industry standards.
3. Critical Thinking and Problem Solving - Formulate and communicate a plan of action for assigned fabrication and maintenance projects.

GENERAL COURSE OBJECTIVES:

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

1. Identify components of all welding processes and shop tools
2. Explain intention of design project
3. Safely transport, assemble, adjust, and maintain project throughout construction
4. Perform assigned laboratory exercises using one or more welding process

TOPICAL OUTLINE	APPROX. HOURS
I. Submit student orientated design	10
II. Submit list and acquire necessary materials	10
III. Display usage of all shop power equipment	10
IV. Display usage of shop and tools	10
V. Utilize and demonstrate one or more welding process with skill and proficiency	<u>103</u>
Total	143

Detailed Topical Outline is available separately

REVISED BY: D. Weber
DATE: August, 2011