



**Purpose:** It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

**Course Title** - Introduction to Layout and Fabrication

**Course Prefix and Number** - WLDG 1417

**Department** - Welding Technology

**Division** – Vocational Science

**Course Type:** (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
- Academic WCJC Core Course
- WECM course (This course is a Special Topics or Unique Needs Course: Y  or N )

**Semester Credit Hours #:** Lecture hours#: Lab/other hours #      **4:3:4**

**Equated Pay hours for course** - 5

**Course Catalog Description** - A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction.

**Prerequisites/Co requisites** - None

List Lab/ Other Hours
Lab Hours 4
Clinical Hours
Practicum Hours
Other (list)

**Prepared by**      Roy Jones

**Date** 10-19-11

**Reviewed by department head**      Roy Jones

**Date** 10-19-11

**Accuracy verified by Division Chair** Terry David Lynch

**Date** 3/27/2012

**Approved by Dean of Vocational Instruction  
or Vice President of Instruction**      Lac

**Date** 11-9-12



**I. Topical Outline** – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

Safety with shop tools, using framing squares, using tri-square, using chalk line, using different clamps, using a straight edge, using a protractor, using a radius marker, using a contour marker, and using a tape measure.

**II. Course Learning Outcomes**

Course Learning Outcome	Method of Assessment
<ul style="list-style-type: none"> <li>-Identify welding symbols</li> <li>-Identify and select measuring instruments and tools for fabricating projects</li> <li>-Recognize correct layout and fabrication terminology</li> <li>-Identify structural shapes and materials</li> <li>-Explain shop safety rules, safety rules for tools and equipment, and personal safety rules</li> <li>-Layout a job from shop drawing</li> </ul>	<ul style="list-style-type: none"> <li>1. Written tests</li> <li>2. Visual Exams</li> <li>3. View practical work each week</li> <li>4. Inspect all measurements and cuts</li> </ul>

**III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.**

How to Read Shop Drawings by Lincoln Electric Co.

**IV. Suggested Course Maximum - 15**

**V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.**

None

**VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course**

Department Assignments	30%
Laboratory Assignments	50%
Final Exam	20%
Total	100%

100-90 = A

89-80 = B

79-70 = C

69-60 = D

Below 60 = F

I = Incomplete (to be used in case of emergencies or illness)

W = Student Withdrawal (either by student or instructor)

**VII. Curriculum Checklist**

- **Academic General Education Course** (from ACGM – but not in WCJC Core)  
No additional documentation needed
  
- **Academic WCJC Core Course**  
Attach the Core Curriculum Checklist, including the following:
  - Basic Intellectual Competencies
  - Perspectives
  - Exemplary Educational Objectives
  
- **WECM Courses**  
If needed, revise the Program SCANS Matrix & Competencies Checklist.