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 – WLDG 1413, WLDG 1428, WLDG 1430 or approval of the Division Chair.

Prepared by    Aaron Dittmar          Date 7/21/2014
Reviewed by department head   Aaron Dittmar         Date 7/21/2014
Accuracy verified by Division Chair    Tim Guin            Date 7/21/2014
Approved by Dean of Vocational Instruction or Vice President of Instruction Amy LaPan Date 8/8/2014
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

<table>
<thead>
<tr>
<th>Course Learning Outcome</th>
<th>Method of Assessment</th>
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</thead>
<tbody>
<tr>
<td>- Identify welding symbols</td>
<td>1. Written tests</td>
</tr>
<tr>
<td>- Identify and select measuring instruments and tools for fabricating projects</td>
<td>2. Visual Exams</td>
</tr>
<tr>
<td>- Recognize correct layout and fabrication terminology</td>
<td>3. View practical work each week</td>
</tr>
<tr>
<td>- Identify structural shapes and materials</td>
<td>4. Inspect all measurements and cuts</td>
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<tr>
<td>- Explain shop safety rules, safety rules for tools and equipment, and personal safety rules</td>
<td></td>
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<tr>
<td>- Layout a job from shop drawing</td>
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</tbody>
</table>

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 - 20

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

<table>
<thead>
<tr>
<th>Department Assignments</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Assignments</td>
<td>50%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

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)
Department Assignments may be composed of a combination of quizzes, homework assignments, safety assignment, and/or written papers. Laboratory assignments will be composed of a combination of assessments of work and visual exams of projects.

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.