



Course Information

Course Title	Introduction to Layout and Fabrication
Course Prefix, Num. and Title	WLDG 1417
Division	Vocational Science: Welding Technology
Department	Welding Technology
Course Type	WECM Course
Course Catalog Description	A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction.
Pre-Requisites	WLDG 1428
Co-Requisites	none

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	4:2:6
Lab/Other Hours	
Equated Pay Hours	5
Lab/Other Hours Breakdown: Lab Hours	6
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

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

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

Course Learning Outcomes:

- Identify welding symbols
- Identify and select measuring instruments and tools for fabricating projects
- Recognize correct layout and fabrication terminology
- Identify structural shapes and materials
- Explain shop safety rules, safety rules for tools and equipment, and personal safety rules
- Layout a job from shop drawing

Methods of Assessment:

- Written tests
- Visual Exams
- View practical work each week
- Inspect all measurements and cuts

Required text(s), optional text(s) and/or materials to be supplied by the student:

Welding Fabrication and Repair

Suggested Course Maximum:

20

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

none

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

AWS Assignments 40%

Laboratory Assignments 40%

Final Exam 20%

Total 100%

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms

- Critical Thinking
- Communication
- Empirical & Quantitative Skills
- Teamwork
- Social Responsibility
- Personal Responsibility

WECM Course -If needed, revise the Program SCANS Matrix and Competencies Checklist