**Danville Area Community College**

**COURSE NUMBER:** WELD101

**COURSE TITLE:** Blueprint Reading For Welders

**DIVISION:** Technology

# SEMESTER CREDIT HOURS: 4

**PREREQUISITES:** None

**FACULTY:** Bob Skinner 217-443-8791 bskinner@dacc.edu

# COURSE DESCRIPTION:

Fundamentals of blueprint reading as applied to the welding trades. Students work with actual drawings. This course should not be taken by students enrolled in DRAF 160.

# COURSE OBJECTIVES / GOALS:

* All welding processes will begin with welding terms and definitions that will help students understand the text terminology.
* Familiarity with the basics of making a drawing,which could be made into a print by several methods.
* Student will learn how to read prints correctly to obtain proper dimensions, shapes, standards, symbols, and signs.
* Student will learn to make sketches of parts.
* Student will become familiar with terminology (shop talk) operations and other information necessary in the fabrication, assembly, and operation of units.
* Student will develop the ability to form a mental picture from the view or views as to what the object should look like.
* Students will know how the various lines are made and what they represent.
* Student will know the views and how they are located in respect to others.
* Student will learn how to specify Fractional, Decimal,and Angular Tolerances.
* Student will learn what Dual Dimension means, uni-lateral and bilateral tolerances, and how to dimension screw threads.

Student will learn how to figure tapers and dimensions of mechanical surfaces.

# OUTLINE:

Weekly activities:

* Review units
* Practice drawing (oblique, isometric, orthographic) views of weldaments. and assembly drawings.
* Cover aspects of assembly and detail drawings.
* Application of both conventional and baseline dimensioning.
* Application of welding symbols on structural steel as well as pipe.

# TEXTBOOK / SPECIAL MATERIALS:

Weldi ng Principles & App lications, ed. By Larry Jeffus (Delmar Publishing) Protractor

Calculator Compass 611 Ruler

# EVALUATION:

Attendance Graded Prints Final Examination

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