COURSE INFORMATION FORM

DISCIPLINE: WELD
COURSE TITLE: Print Reading & Weld Symbols
CR.HR: 3  LECT HR: 3  LAB HR:  (CLIN/INTERN HR:  )  CLOCK HR: 

CATALOG DESCRIPTION:
Student will develop an understanding of line interpretation and apply this knowledge to orthographic and isometric drawings. Skill development in recognizing structural shapes from prints and interpreting welding symbols on prints will also be emphasized.

PREREQUISITES
None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Interpret shop drawings including title blocks, notes, and material lists.
2. Apply dimensions and tolerances for both U.S. customary and metric units.
3. Identify base metals by name.
4. Identify and apply weld joint geometry.
5. Identify weld symbols and the proper use.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

Quantitative Literacy and Mathematical Analysis
E. Interpret and apply numeric information embedded in text or real-life situations (2)
F. Interpret and apply numeric information presented in tables, charts, and graphs (3,4)
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

The student will demonstrate:

1. competency in performing welding operations.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Formative and summative written examinations (1-5)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Drawing interpretation
   A. Line significance
   B. Title blocks
   C. Drawing notes
   D. Material lists
   E. Dimensions and tolerances

II. Base metal identification
   A. Nomenclature
   B. Sizing

III. Weld joint geometry
   A. Identification
   B. Application

IV. Welding symbol interpretation
   A. Weld symbols
   B. Supplementary information