COURSE INFORMATION FORM

DISCIPLINE  WELD
COURSE TITLE  Introduction to Welding/Cutting Processes
CR.HR  1  LECT HR  .5  LAB HR  1  CLIN/INTERN HR.  _______  CLOCK HR.  _______

CATALOG DESCRIPTION
Student will develop an awareness of oxy-fuel cutting and of the more common welding processes in the welding industry. An emphasis will be placed on GMAW welding with student experiencing the process in the laboratory setting.

PREREQUISITES
None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Demonstrate basic welding and cutting safety.
2. Demonstrate oxy-fuel set-up and shut down procedures.
3. Demonstrate basic principles of operation for the GTAW, SMAW, GMAW, and FCAW processes.
4. Perform non-critical fillet and groove welds with the GMAW process.

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.

None
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.

Student will demonstrate:

1. Safe practices in the welding environment.

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 tests (1-3)
2. Performance test (4)
COURSE OUTLINE FORM

CATALOG NO.  WELD 100

DISCIPLINE  WELD

COURSE TITLE: Introduction to Welding/Cutting Processes

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.  Welding and cutting safety
   A.  Oxy-fuel
   B.  Arc welding

II.  Arc welding principles of operation
    A.  GTAW
    B.  SMAW
    C.  GMAW
    D.  FCAW

III.  GMAW welds
      A.  Fillet
      B.  Groove