

**Mayland Community College
Welcomes You To:**

**WLD 112.10
Basic Welding Processes
Contact Hours: 4 Credit Hours: 2**

Term: Spring 2007

Course Description:

This course provides the student with a thorough technical understanding of arc welding fundamentals, welding safety, arc welding machines, electrode classifications and selection. It also provides training to develop the manual skill necessary to make high quality shielded metal arc welds, in all positions, on mild steel from 16 gauge to 1" plate, single pass and multiple pass. The student also learns to weld using mild steel and low hydrogen iron powder electrodes using AC and DC welding power sources.

Prerequisites: None **Corequisites:** None

Instructor Information

Instructor: Paul Dover

Office Location: Welding Shop

Telephone Number: 828-765-7351 ext 303 or 828-765-1071 (home)

Email Address: pddover@mayland.edu

Office Hours: available upon request

Course Information

Time and Location: Welding shop Wednesday 2:00 pm – 5:50 pm

Required Text(s): Industrial Welding-Level I

Wheels of Learning

Welding Principles and Applications

Required Supplies: 100% cotton clothing, long sleeve shirt, leather boots

Course Objectives/Competencies:

Demonstrate entry level welding skills on thin and medium thickness of steel, single and multipass, using AC and DC welding machines and a variety of electrodes.

Attendance Policy/Tardiness/Make-Up Work: Attendance is an important part of you grade. If you are not here you cannot learn. Attendance is expected.

Grading Criteria/Tests/Projects:

1. Each shop exercise will be evaluated by the instructor on a satisfactory or unsatisfactory basis. The completed welding exercises will be graded to get 50% of the total grade for the course.
2. Written test scores will be averaged to get 25% of total grade.
3. Attendance is very important. Lecture/demonstrations, shop exercises, and reading lessons are planned so that most of the time in the quarter is needed to complete them. These meetings will make up 25% of total grade.

Grading Scale:

A = 93-100

B = 85-92

C = 77-84

D = 70-76

F = below 69

Inclement Weather Procedures: Listen for information about school closing or cancellations on the television or radio.

Academic Standards/Student Expectations/Ethics:

1. To be in attendance and on time for each class.
2. To complete shop exercises within allotted time.
3. To pass both written and shop tests.

Withdrawal Dates:**Spring 2007**

End of Unconditional Withdrawal Tuesday, February 13, 2007

End of Conditional Withdrawal Tuesday, March 27, 2007

The following Administrative Withdrawal statement: If a student has not been in contact with the instructor and has not attended class for a consecutive two-week period, an administrative withdrawal will be submitted by the instructor.

The following ADA statement: Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.

Course Outline Topics

Live work projects

Classroom work