

Name of Course: Welding Technology I (Basic Welding)

Name of Instructor: Mr. D'Incognito Room 40

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847-858-0089

Course Length: One Semester

Class Textbook / Materials:

Welding Technology Fundamentals by: William A. Bowditch & Kevin E. Bowditch.

Goodheart-Willcox, 1997. ISBN 1-56637-314X

Student will provide safety glasses, notebook, folder and writing utensil. Pants and closed-toes shoes are required when in the lab.

A locker and lock will be provided for the student.

Description of the Course: This is a one-semester course designed to introduce the student to the welding process.

Course Unit Content:

1. Safety
2. Welding Theory and Physics
3. Gas Cutting and Welding
4. Electric Welding SMAW, MIG, TIG
5. Spot Welding
6. Plasma Cutting

Learning Objectives:

1. Understand the welding process and metallurgy
2. Understand the use and practice of gas welding and cutting equipment
3. Understand the use and practice of basic electric welding processes
4. Understand the use and practice of spot welding equipment
5. Understand the use and practice of plasma cutting equipment
6. Demonstrate the safe use of machinery and tools
7. Produce lab project

Units of study include a project and/or lab that will be assessed by means of a rubric and a test at the conclusion of each unit.

Daily / Weekly Assignments, Grading Procedures, and Special Projects:

Grades are determined as follows: 40% - Lab work, 40% - Tests, 15% - Homework, and 5% Professionalism.