

Name of Course: Precision Metals Production I (Metals)

Name of Instructor: Mr. D'Incognito Room 40

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847-858-0089

Course Length: One Semester

Class Textbook / Materials:

Modern Metalworking by: Willis H. Wagner & Clois E. Kicklighter.

Goodheart-Willcox, 2000, ISBN: 1- 56637-710-2

Exploring Production by: Thomas R Wrioth & Richard M. Henak.

Goodheart-Willcox, 1993. ISBN: 0-87006-944-6.

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 course introduces the students to the production, materials, tools, equipment, and techniques with an emphasis in metalworking. Students will be made aware of resources, technical processes, industrial applications, and technical impacts of metal manufacturing technology. Emphasis will be given to the work place environment including safety, record keeping, precision measuring, and quality control.

Course Unit Content:

1. Safety
2. Metal Properties, Classifications and Standards
3. Drawings, Measurements, and Layouts
4. Metal Working Hand Tools-Cutting Forming and Assembling
5. Sheet Metal Fabrication
6. CNC Operation

Learning Objectives:

1. To understand the processes of manufacturing and its relation to metal working
2. To understand and practice the necessary skills to insure quality production
3. To understand and practice the use of manual operated metal working equipment
4. To understand and practice the use of CNC operated metal working equipment
5. Demonstrate the safe use of machinery and tools
6. Produce lab projects

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.