

Name of School:

Name of Course: **Engineering Drafting**

Instructor Information

Name:

E-mail address:

School phone number:

Web page address:

Best times to be reached:

Course Description

This course teaches the basics of mechanical drafting using hand tools and computers. You will learn how to represent objects on paper as well as on the computer. Application of mathematical concepts to drafting included.

District Standards and Power Benchmarks

Power Standards

Students will be able to:

1. To provide the basic information necessary for planning various types of working drawings.
2. Develop the necessary technical skills to communicate engineering concepts in an understandable, efficient and accurate manner.
3. Utilize the latest drawing techniques to incorporate communication and engineering career opportunities.

Power Benchmarks

Students will be able to:

1. Exhibit knowledge of drafting standards.
2. Understand the need for sketching skills.
3. Produce a working drawing.
4. Demonstrate skills in developing orthographic projection.
5. Use proper dimensioning rules.
6. Produce a detailed section drawing.
7. Produce a detailed auxiliary drawing.
8. Produce three different pictorial drawings.
9. Exposure to drafting career paths.
10. Demonstrate knowledge of CAD systems used in the preparation of drawings used in engineering.

Course Information

Course length 2 consecutive terms

Elective course

1.0 credits

No prerequisites required

Course Outline/Calendar

Completion of all reading, writing assignments, assigned sketches and drawings, (using hand and CAD tools), as well as quizzes, tests, and exams on information covered, and a notebook/portfolio of all work assigned.

Text/Other Required Materials/Resources

Text: Fundamentals of Modern Drafting, Wallach, Paul Ross, Thompson Delmar Learner Publishing, Copyright 2003.
2" – 3 Ring Binder with Divider Tabs

Instructional Procedures & Support

1. Instructional procedures will consist of lecture, demonstration, reference materials, and examples.
2. Extra help will be provided before / after school and upon request.

Classroom Management Procedures

1. Treat all classmates and instructor with respect at all times.
2. Procedures for attendance and punctuality listed in the student handbook will be followed.
3. Students are responsible for all missing assignments and make-up work.
4. No food or drink in the classroom.
5. No electronic devices eg. Cell phones, I-pods, and cameras.
6. Have a note book and pencil everyday.

Assessment Plan

Grades will be determined by class participation, written assignments, drawing assignments, presentations, projects, portfolio, tests, and final exam.

Grading System

A	93 and above	Firm command of knowledge domain High level of skill development
A⁻	90 - 92	Exceptional preparation for later learning
B⁺	87 - 89	Command of knowledge beyond the basic concepts of knowledge Advanced development of most skills
B	83 - 86	Has prerequisites for later learning
B⁻	80 - 82	
C⁺	77 - 79	Command of the basic concepts of knowledge Demonstrates ability to use basic skills
C	73 - 76	Lacks a few prerequisites for later learning
C⁻	70 - 72	
D⁺	67 - 69	Lacks knowledge of some fundamental ideas Some important skills not attained
D	63 - 66	Deficient in many of the prerequisites for later learning
D⁻	60 - 62	
F	59 and below	Most of the basic concepts and principles not learned Most essential skills have not been demonstrated Lacks most prerequisites needed for later learning