



John H. Reagan High School

Enabling our students to realize great heights

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Introduction to Computer Aided Drafting Course Syllabus 2009 – 2010

Instructor: Smalling, Patricia Email: psmallin@houstonisd.org Room# M306

Tutorials: 7:30am -8:30 am Conference: 8th

Course Overview

An introduction to basic technical manual drafting in the fall semester. Spring Semester students will move to computers to get familiar with AutoCad software. Emphasis is placed on drawing setup; creating manual drawings and modifying geometry; placing, and scaling objects, adding text and dimensions, using proper symbols while learning basic engineering disciplines.

Co-requisite: Algebra or Geometry (This course is for 10th and above.)

General Expectations

Learning Outcome(s)/Objectives: Upon successful completion of the course, the student will demonstrate:

1. KNOWLEGE:

1. Understand drawing standards
2. Understand the principals of drawing development
3. Understand Draw, Dimension, Reading Architectural Scale

2. SKILLS:

1. To be able to create Standard 2 Dimension Engineering Drawing
2. CAD drafting tools, Drawing setup
3. CAD Construction, Edit Techniques

3. ATTITUDE/BEHAVIORS:

1. The student will be able to follow step-by-step instructions in the creation of Standard 2D engineering drawing
2. Dimension Engineering Drawing via verbal and written instructions as given by the instructor.
3. The student will demonstrate patience and skills

Required Texts/Materials

Students will be working with the following books: Blue line and Blueprint reading book; Machine Trades Print Reading Book.

Materials required for course: All students will be required to purchase the following materials to be used for course: writing and drafting materials

1- 3"- 3 ring notebook, White

1 set of dividers,

1 set of sheet protectors

Mechanical pencils

Quad Ruled Composition Book

Course Outline

Week 1 Introduction Manual/Technique drafting

Safety Orientation

Drafting Orientation

Scale orientation

Assignment 1: Due in Week 3

Week 2 Handout Packages

Drawings- 2.2; 2.3; 2.4; Stapler (6); page 8; Questions in units 2 and 3 in blue line book

Assignment 2: Due in Week 4

Week 3 Quiz 1

Assignment 3: Due in Week 5

Week 4 Line types

Assignment 4: Due in Week 6

Week 5 Quiz 2

Assignment 5: Due in Week 7

Week 6 Model block one

Assignment 6: Due in Week 8

Week 7 Basic techniques

Assignment 7: Due in Week 9

Week 8 Industry standards

Assignment 8: Due in Week 11

Week 10 Quiz 3

Model block 2

Assignment 9: Due in Week 12

Week 11 Proper Dimensioning

Assignment 10: Due in Week 13

Week 12 Crosshatching. Hatch Boundary

Multiple Boundaries and Hatch Style. Hatch Patterns. Hatch Scale. Hatch around text. and Boundary

Assignment 11: Due Week 14

Week 13 Quiz 4

Scale factor

Assignment 12: Due in Week 15

Week 14 Block 3

Size, Scale, and Orientation. Review For Final Exam. All Drawings Due

Week 16 Final Exam

Grading

The student will be evaluated and receive a final grade based upon the following criteria:

Lab. work consisting of assigned technical/engineering drawing problems. A minimum of 4 quizzes

will count 20%, drawings: 35%, mid-term 20%, final exam 25%. Class and laboratory attendance, active participation in class, professional attitude and growth in term of technical/technology skill development and team work within the lab. Environment shall be taken into consideration
Late Assignment Policy: Students are encouraged to turn assignments in on time if at all possible. This allows the instructor to grade the work, return it to the student and the student use the feedback as a learning tool.

Make-up test/Project policy: All make-up tests (general test and mid-term only) should be taken as soon as possible by the student. It is the student's responsibility to make arrangements with the instructor for a schedule time. NO make-up test is given for the final examination.

Attendance Policy: Refer to the HISD Student handbook, "Class Attendance" section. It is the responsibility of the student to make-up all missed work and exams, as approved by the instructor.
Program Accessibility (ADA): Reagan High School, Engineering, Architectural and Design Technology Program is committed to making all aspects of the program accessible to individuals with disabilities, as defined by the American with Disabilities Act (ADA). Students who fall within the provisions of the ADA are required to obtain certification of their impairment through the Northeast College ADA