ORIGINATOR: Instructor Placeholder AAA

COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:

1. generate drawings in three dimensions.
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2. demonstrate the technical knowledge, attitudes, and habits necessary for advancement to the field of drafting and the attainment of successful employment.
3. use and apply basic industry and military drawing standards.
4. relate geometric construction to industry drafting.

**COURSE OBJECTIVES:**
1. Continue the concepts of drafting as a graphic language and further developing the ability to think in three dimensions.
2. Expand their technical knowledge, attitudes and habits necessary for advancement in the field of drafting and the attainment of successful employment.
3. Learn to use and apply industry and military drawing and assembly standards.
4. Be introduced to geometric construction as related to industry drafting.

**COURSE CONTENT:**

**LECTURE CONTENT:**

A. Use of computer aided drawing hardware and software
B. Sectioning
C. Precision dimensioning
D. Working drawings and assemblies
E. Basic descriptive geometry:
   1. Single auxiliary projection
   2. Secondary auxiliary projection
   3. Points, lines and planes

**LABORATORY CONTENT:**

1. Use of computer aided drawing hardware and software
2. Sectioning
3. Precision dimensioning
4. Working drawings and assemblies
5. Basic descriptive geometry:
   a. Single auxiliary projection
   b. Secondary auxiliary projection
   c. Points, lines and planes
6. Resume writing

**METHODS OF INSTRUCTION:**

A. Lecture:
B. Lab:
C. Other simultaneous interactive:
D. Independent Study:

**INSTRUCTIONAL TECHNIQUES:**
COURSE ASSIGNMENTS:
   Reading Assignments
   A. Required Reading such as:
      Technical Drafting, Giesecke; Prentice Hall, latest edition.
   Out-of-class Assignments
      Library Media Center
   Writing Assignments
      Analyze and solve drawing problems requiring knowledge, skills and techniques covered in class lectures/demonstrations, lab activities and textbook reading assignments.

METHODS OF STUDENT EVALUATION:
Midterm Exam
Final Exam
Short Quizzes
Objective Examinations
Projects (ind/group)
Problem Solving Exercises
   Demonstration of Critical Thinking:
      1. Analyze the assigned drawing problem 2. Identify the proper technique 3. Demonstrate the required technique
   Required Writing, Problem Solving, Skills Demonstration:
      Analyze and solve drawing problems requiring knowledge, skills and techniques covered in class lectures/demonstrations, lab activities and textbook reading assignments.

TEXTS, READINGS, AND RESOURCES:
   TextBooks:
   Other:

LIBRARY:
   Adequate library resources include:

Comments:

Attachments:
   Attached Files