Number: DRAF G110  
TITLE: Basic Engineering Drafting II, Computer Aided Drafting

ORIGINATOR: Instructor Placeholder AAA  
EFF TERM: Summer 2010

FORMERLY KNOWN AS:

DATE OF OUTLINE/REVIEW: 05-01-2005

CROSS LISTED COURSE:  
TOP NO: 0953.00

CID:

SEMESTER UNITS: 3.0

HRS LEC: 36.0  HRS LAB: 36.0  HRS OTHER: 0.0

CONTACT HRS TOTAL: 72.0

STUDY NON-CONTACT HRS RECOMMENDED: 72.0

CATALOG DESCRIPTION:
The course will cover precision dimensioning, threads & fasteners, working drawings and assemblies, isometric drawing, single and secondary auxiliary projection, basic descriptive geometry and writing resumes. All drafting problems will be drawn using computer aided drafting, (CAD) with AutoCAD software.

JUSTIFICATION FOR COURSE:

PREREQUISITES:

COREQUISITES:

ADVISORIES:

- DRAF G105: Basic Engineering Drafting I, Computer Aided Drafting

ASSIGNED DISCIPLINES:

DRAFTING CADD (computer -aided drafting/ design), CAD (computer- aided design), CAD (computer-aided drafting)

MATERIAL FEE: Yes [ ] No [X] Amount: $0.00

CREDIT STATUS: Noncredit [ ] Credit - Degree Applicable [X] Credit - Not Degree Applicable [ ]

GRADING POLICY: Pass/No Pass [ ] Standard Letter [X] Not Graded [ ] Satisfactory Progress [ ]

OPEN ENTRY/OPEN EXIT: Yes [ ] No [X]

TRANSFER STATUS: CSU Transferable[X] UC/CSU Transferable[ ] Not Transferable[ ]

BASIC SKILLS STATUS: Yes [ ] No [X]  
LEVELS BELOW TRANSFER: Not Applicable

CALIFORNIA CLASSIFICATION CODES: Y - Not Applicable

NON CREDIT COURSE CATEGORY: Y - Not applicable, Credit Course

OCCUPATIONAL (SAM) CODE: C

REPEATABLE ACCORDING TO STATE GUIDELINES: No [X] Yes [ ] NUMBER REPEATS:

REQUIRED FOR DEGREE OR CERTIFICATE: No [ ] Yes [X]

Associate of Arts: Liberal Arts: Emphasis in Business and Technology(Associate in Arts)
Computer Aided Design and Drafting (two-year)(Certificate of Achievement)
Drafting Technology: Computer Aided Design and Drafting (CADD)(Associate in Arts)

GE AND TRANSFER REQUIREMENTS MET:

COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:
1. generate drawings in three dimensions.
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
   4. Resume writing

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