COURSE OUTLINE OF RECORD

Number: DRAF G090  TITLE: CAD Drafting Laboratory

ORIGINATOR: Instructor Placeholder AAA  EFF TERM: Summer 2010
FORMERLY KNOWN AS:  DATE OF OUTLINE/REVIEW: 05-24-1979
CROSS LISTED COURSE:  TOP NO: 0953.00

SEMESTER UNITS: 0.5 – 1.0
HRS LEC: 0.0  HRS LAB: 27.0 – 54.0  HRS OTHER: 0.0
CONTACT HRS TOTAL: 27.0 - 0.0
STUDY NON-CONTACT HRS RECOMMENDED: 0.0 - 0.0

CATALOG DESCRIPTION:
For students desiring or needing extra CAD lab hours. The student will perform exercises which will be assigned in one of the prerequisite classes.

JUSTIFICATION FOR COURSE:

PREREQUISITES:

COREQUISITES:
• ARCH G162: 3D CAD For Architecture
• DRAF G101: Basic Computer Aided Design Drafting
• DRAF G105: Basic Engineering Drafting I, Computer Aided Drafting
• DRAF G110: Basic Engineering Drafting II, Computer Aided Drafting
• DRAF G170: Advanced 3D Mechanical Design

ADVISORIES:

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 [X] Standard Letter [X] Not Graded [ ] Satisfactory Progress [ ]

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

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

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]  NUMBER REPEATS:

REQUIRED FOR DEGREE OR CERTIFICATE: No [ ] Yes [X]
Computer Aided Design and Drafting (two-year)(Certificate of Achievement)
Drafting Technology: Computer Aided Design and Drafting (CADD)(Associate in Arts)
Technical Drafting Option (one-year)(Certificate of Specialization)

GE AND TRANSFER REQUIREMENTS MET:
COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:

1. demonstrate basic drafting skills.
2. use basic functions of the CAD software.
3. generate simple isometric and multi-view projection drawings using CAD.
4. use the graphic language typically seen in mechanical drawing.
5. generate freehand sketches of simple engineering drawings using rudimentary skill.
6. interpret and read blueprints using rudimentary skill.

COURSE OBJECTIVES:

1. Practice and reinforce principles, procedures and techniques taught in lecture and reading assignments.
2. Enhance skills learned in prerequisite CAD classes.
3. Correctly solve assigned CAD problems using correct principles and techniques.

COURSE CONTENT:

LECTURE CONTENT:

(Identical to the concurrent prerequisite CAD class)

LABORATORY CONTENT:

(Identical to the concurrent prerequisite CAD class)

METHODS OF INSTRUCTION:

A. Lab:
B. Independent Study:

INSTRUCTIONAL TECHNIQUES:

COURSE ASSIGNMENTS:

Writing Assignments

Demonstration of skills through assigned drawing problems requiring use of special techniques taught in the concurrent CAD class.

Reading Assignments

A. Required Reading such as:

(Identical to prerequisite CAD class)

Out-of-class Assignments

METHODS OF STUDENT EVALUATION:

Projects (ind/group)
Problem Solving Exercises
Skills Demonstration

Demonstration of Critical Thinking:

The student must explain why certain techniques taught in the concurrent CAD class would be best used to solve each assigned CAD problem.
Required Writing, Problem Solving, Skills Demonstration:

Demonstration of skills through assigned drawing problems requiring use of special techniques taught in the concurrent CAD class.

TEXTS, READINGS, AND RESOURCES:

LIBRARY:

Adequate library resources include:

Comments:

Attachments:

Attached Files