Number: ARCH G160
TITLE: Introduction To Computer-Assisted Drafting For Architecture (AUTO-CAD)

ORIGINATOR: Instructor Placeholder AAA
EFF TERM: Spring 2008

FORMERLY KNOWN AS:
DATE OF OUTLINE/REVIEW:
CROSS LISTED COURSE: TOP NO: 0201.00
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:
An introductory course in computer assisted drafting for architecture. A study of the organization, components, and concepts of CAD and its applications in the architectural profession. Includes use of AutoCAD software for architectural drafting and design drawings.

JUSTIFICATION FOR COURSE:

PREREQUISITES:
COREQUISITES:
ADVISORIES:

ASSIGNED DISCIPLINES:
Architecture
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[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]

Liberal Arts: Emphasis in business and Technology
Associate of Arts: Liberal Arts: Emphasis in Business and Technology(Associate in Arts)
GE AND TRANSFER REQUIREMENTS MET:
Degree Applicable
AA Degree Applicable

COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:
1. create architectural graphics, revise graphics and produce drawings using system plotters and printers.
2. demonstrate skills required to set-up program defaults and template usage.
3. demonstrate knowledge of the basic concepts, procedures, and vocabulary of CAD.

COURSE OBJECTIVES:
1. Introduce the student to the concepts, procedures and basic vocabulary of CAD.
2. Students will demonstrate the ability to create architectural graphics, revise graphics and produce drawings using system plotters and printers.
3. Demonstrate skills required to set-up program defaults and template usage.
4. Students may begin introduction of other CAD software, as available, for entry level 3D project development.

COURSE CONTENT:

LECTURE CONTENT:

A. Basic System Orientation
   1. Hardware components
   2. Vocabulary
   3. Disk Format
   4. Workfile management
   5. Industry usage and examples

B. Entering AutoCAD
   1. Basic drawing setup
   2. Basic drawing entities
   3. Fundamental drawing commands
   4. AutoCAD menus
   5. AutoCAD Operations/Applications
      a. Colors
      b. Coordinates
      c. Copying
      d. Dimensioning
      e. Doors/windows
      f. Text
      g. Erasing
      h. Layers

C. Drawing Development
   1. Office standards
   2. Templates
   3. 3D - isometric views
   4. Line types
   5. AutoCAD modeler

D. Drawing File Management
   1. Backups
   2. Copying to/from floppy diskettes
   3. Drawing files and directories
   4. Drawing plotting/printing
   5. Other Related AutoCAD Routines and Procedures

LABORATORY CONTENT:
METHODS OF INSTRUCTION:

A. Lecture:
B. Lab:
C. Independent Study:

INSTRUCTIONAL TECHNIQUES:

COURSE ASSIGNMENTS:

Reading Assignments
Software manual; and tutorial work manual readings will be assigned for most class meetings until all required material is mastered.

Students will also be required to read all course handouts. Students must obtain proficiency in hardware/software vocabulary in order to communicate with the instructor and the computer.

Out-of-class Assignments

Assigned reading

Writing Assignments

Students will be able to properly use and apply AutoCAD software in preparation of architectural drafting and design projects.

METHODS OF STUDENT EVALUATION:

Short Quizzes
Written Assignments
Projects (ind/group)
Problem Solving Exercises
Skills Demonstration

Demonstration of Critical Thinking:
Students will demonstrate ability to organize, develop, modify and produce industry quality CAD drawings and project sheets.

Required Writing, Problem Solving, Skills Demonstration:
Students will be able to properly use and apply AutoCAD software in preparation of architectural drafting and design projects.

TEXTS, READINGS, AND RESOURCES:

LIBRARY:

Adequate library resources include:

Comments:

Attachments:

Attached Files