

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: DT 127/RDT 127 Advanced Computer Aided Drafting

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 96

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS:

PREREQUISITE: DT 125/R DT 125 Introductory Computer Aided Drafting

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Advanced theory and hands-on operation of a CAD system. Emphasis is placed on increased productivity using customization and portfolio presentation for successful career opportunities.

SPECIFIC COURSE OBJECTIVES:

Upon completion of this course, the successful student will be able to:

1. Solve novel problems relating to industrial AutoCAD applications
2. Analyze and solve advanced three-dimensional drawing problems
3. Deduce valid conclusions for productivity for AutoCAD operations
4. Create macros in AutoLisp to solve drawing and productivity problems
5. Create and present a hard copy and a electronic portfolio.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Review 3D concepts and apply to solve drawing problems
- II. Increase productivity through multiple drawing manipulation
 - A. Apply XREF command
 - B. Use of OLE command
- III. Customization using advanced file management techniques
- IV. Create custom menus for advance applications.
- V. Introduction to AutoLISP
 - A. Use of macros and script files.

- VI. Presentation of personal drawing portfolio.
- A. Job hunting techniques
 - B. Resume writing.
 - C. Slideshow techniques.

REQUIRED READING:

Shumaker, Terrance/Madsen, David. AutoCAD and its Applications, Advanced. South Holland, Illinois: Goodheart-Willcox Company, 2001.

SUGGESTED READING:

Wohlers, Terrance. Applying AutoCAD. New York: Macmillan/McGraw Hill Publishing Company, 2001.
Rawls/Hagen. AutoLISP Programming. South Holland, Illinois:

REQUIRED WRITING:

Skills demonstration of competencies identified in Specific Course Objectives.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Textbook and other resource reading assignments; additional lab time as needed to complete weekly assignments and projects.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

- 60% Weekly or biweekly assignments are submitted and evaluated based on previously provided information and criteria.
- 20% Two examinations at approximately the 6th week and the 12th week of the course to test for general knowledge of material studied in the interim.
- 20% A comprehensive final examination demonstrating computer customization and a presentation of a drawing portfolio.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 2

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 (C) (2) (a)

CONTACT PERSON: Anne Reiss Ext. 2765

SIGNATURES:

By signing this form, I certify that this course outline of record meets all the minimum requirements for associate degree credit courses as specified in Title 5 Section 55002.

SIGNATURES ON FILE