

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

Transfer course A.A. degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: DT 126 / RDT 126
Intermediate 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

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Advanced theory and hands-on operation of a CAD system. Emphasis is placed on large-scale drawings, three-dimensional software techniques, orthographic projections, and complex computer aided manufacturing applications.

SPECIFIC COURSE OBJECTIVES:

The student will:

1. Solve novel problems relating to industrial AutoCAD applications.
2. Create blocks to solve drawing management problems.
3. Deduce valid conclusions for advanced plotting problems.
4. Identify industrial isometric drawing standards.
5. Analyze and solve three-dimensional drawing problems.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Basic Block use and creation
 - A. Create and store basic blocks and files.
 - B. Create symbol libraries.
 - C. Generate a Bill of Materials by extracting attributes.
- II. Solve advance plotting problems.
 - A. Apply different measuring systems and plotting scales.
 - A. Create composite views and apply to paper space.

III. Solve advance problems in isometric illustration.

V. Apply basic and advanced 3D drawing concepts.

- A. Basic 3D drawing commands.
- B. Advanced 3D drawing commands.
- C. Basic shading and rendering commands.
- D. Create and draw elevations.

VI. Apply .XYZ filter commands

REQUIRED READING:

Wohlens, Terrance. Applying AutoCAD. New York: Macmillan/McGraw Hill Publishing Co., 1999.

SUGGESTED READING:

REQUIRED WRITING:

Procedural outlines for drawing productions, working log, written evaluations, and drawing analysis are incorporated. (Approximately 20 pages.)

Demonstration of basic AutoCAD skills is more appropriate.

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.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

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

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. Several assignments include along with drawings made with the AutoCAD software, a written account of the analysis for solving the problem and a written procedure for efficiently and correctly producing the drawing.

25% 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.

15% A comprehensive final examination.

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:

CONTACT PERSON: Anne Reiss Ext.2765

SIGNATURES:

SIGNATURES ON FILE
