

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-200 / RDT-200 Advanced Computer Aided Architectural Drafting

UNIT VALUE: 4 MINIMUM NUMBER OF SEMESTER HOURS: 128

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS:

PREREQUISITE: DT 125 and completion of, or concurrent enrollment in, DT 105.

COREQUISITE: None.

RECOMMENDED PREPARATION: None.

SCOPE OF COURSE:

Advanced techniques in the operation of AutoCAD software for architectural applications on IBM compatible computers. Preparation of various architectural working drawings from a preliminary residential design.

SPECIFIC COURSE OBJECTIVES:

The student will be able to:

1. Employ an existing preliminary design and apply CAD principles to construct fully dimensioned and noted working drawing floor, framing and foundation plans; including door and window call-outs, joist and rafter sizes, and typical foundation details.
2. Apply CAD principles to construct fully noted building cross-sections, showing all structural elements, notes and dimensions.

3. Compare and contrast CAD principles related to drafting building elevations; then prepare elevations, including notes, dimensions, lateral braces, attic ventilation, wall materials and active door and window panels.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Review and updating of CAD system software
- II. Creating prototype drawings
- III. Special operations with use of the plotter
- IV. Large format drawing creation
- V. Large format plotting techniques
- VI. Advanced editing procedures
- VII. Advanced dimensioning techniques
- VIII. Layering operations
- IX. Complex drawing operations and techniques
- X. Creation and use of architectural block library

REQUIRED READING:

Jefferis, Alan and David A. Madsen. Architectural Drafting & Design. Third Edition. Albany, NY: Delmar Publishers Inc., 1996.

Wohlens, John. Applying AutoCAD. New York: McGraw/Hill, 1996.

SUGGESTED READING:

Hoke, John Ray, Ed. Architectural graphic standards. New York: John Wiley and Sons, Inc., 1994.

REQUIRED WRITING:

Demonstration of skills in preparation of architectural drawings in CAD is more appropriate.

OUTSIDE ASSIGNMENTS:

Students are expected to spend three hours per unit per week in class and on outside

assignments, prorated for short-term classes.

Textbook readings and class hand-outs.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

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

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

Yes No

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

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

- 60% Drafting assignments are submitted and evaluated based on previously provided information and criteria. Several assignments include a written account of the analysis for solving the problem and a written procedure for efficiently and correctly producing the drawing along with drawings made with the CAD system.
- 40% A final set of architectural working drawings that include instructor corrections made on the progress drawings submitted during the semester.

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)

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