

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 ²⁰²~~201~~/RDT ²⁰²~~201~~ Advanced Computer Aided Architectural Drafting **II**

UNIT VALUE: 4 **MINIMUM NUMBER OF SEMESTER HOURS:** 128

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS:

PREREQUISITE: None.

COREQUISITE: None.

RECOMMENDED PREPARATION: DT 200

SCOPE OF COURSE:

Third-party architectural softwares for use in conjunction with AutoCAD software. Preparation of 3D architectural models and their manipulation for preparation of individual architectural working drawings including: dimensioned floor plans, building sections, elevations, etc.

SPECIFIC COURSE OBJECTIVES:

Successful students will be able to:

1. Describe and apply current residential construction practices and materials to the setup of a prototype drawing in the CAD software being utilized.
2. Create a full 3D computer model of a residence in the CAD software being utilized.
3. Utilize and manipulate an architectural computer model to create standard architectural working drawings, including a dimensioned floor plan, building sections and elevations, and framing and foundation plans.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Software Introduction and Prototype Settings
- II. 3D Modeling
 - A. Walls and Openings
 - B. Slab and Foundations
 - C. Roofing
 - D. Framing
- III. 2D Working Drawings
 - A. Floor Plans and Dimensioning
 - B. Building Sections
 - C. Building Elevations
 - D. Foundation Plans
 - 1. Detailing
 - 2. Dimensioning
 - E. Framing Plans and Details.

REQUIRED READING:

Software tutorials and texts as required by instructor.

SUGGESTED READING:

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

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

REQUIRED WRITING:

Demonstration of skills in preparation of architectural drawings in CAD 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.

Textbook readings and class hand-outs in preparation for drawing assignments.

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 instructor provided information and criteria.
- 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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