

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 105 Basic Architectural Drafting

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 96

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

An introduction to architectural drafting including symbols, lettering, construction principles, details, and codes as related to the development of working drawings for simple residential design.

SPECIFIC COURSE OBJECTIVES:

Successful students will be able to:

1. describe and draft light wood frame construction details and elements;
2. analyze site plan elements; including bearings, topography, setbacks, and dimensioning;
3. identify roof types and solve a series of roof design problems; and
4. anticipate and solve basic residential design problems.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Review of Basic Mechanical and Architectural Drawing Principles
 - A. Line symbols
 - B. Orthographic projection
 - C. Sectional views

- II. Architectural Lettering and Linework
- III. Principles of Building Construction
 - A. Foundation construction and details.
 - B. Wall framing and details.
 - C. Roof framing and details.
 - D. Building codes, inspections, etc.
- IV. Principles of Roof Design
- V. Principles of Site Design
 - A. Meets and bounds (bearings).
 - B. Topography (contours).
 - C. Setbacks and easements.
 - D. Access and orientation.
- VI. Residential Design
 - A. Site considerations.
 - B. Room arrangement, sizing, and zoning.
 - C. Floor plan development.
 - 1. Drafting symbols and conventions.
 - 2. Presentation techniques.

REQUIRED READING:

Jefferis, Alan and David Madsen. Architectural Drafting and Design. 4th Edition. NY: Delmar Publishers Inc., 2000.

Dwelling Construction Under the Uniform Building Code. California: International Conference of Building Officials, 2000.

SUGGESTED READING:

Architectural periodicals.

Ramsey, C.G. and H.R. Sleeper. Architectural Graphic Standards. 10th Edition. New York: John Wiley and Sons, Inc., 2000.

Sweet's Catalog.

REQUIRED WRITING:

Demonstration of architectural drafting 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.

Two hours of outside reading and preparation will be required for each hour of class lecture. Visits to a minimum of three new home model complexes will be required to collect the brochures, visit each of the models, and make notes on each of the models in the brochures.

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):

Examinations: 35% of grade

Drawing assignments: 65% of grade

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

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

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

CONTACT PERSON: Ken Swift, ext: 2559

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.

Prepared by: _____
(signature) (date)

*Department Chairperson/Director: _____
(signature) (date)

*Division Dean: _____
(signature) (date)

*Curriculum Committee Representative: _____
(if applicable) (signature) (date)

*I certify that this course meets all the minimum requirements for A.A. degree applicable courses. Course outlines of record should be reviewed regularly and revised as necessary.

NOTE: Some revisions to course outlines of record require Curriculum Committee approval, Others may not. Please consult your dean or the Instruction Office if you need assistance.