

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 140 Electronic Drafting and Design

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:

Fundamental terminology and drafting required for an entry-level position in the electro-mechanical industry. Includes use of DOD and Engineering Standards, shop practices, and components with their schematic graphic symbols used in the electronic industry. Drafting will be performed on the computer using AutoCAD and a high-end schematic capture software.

SPECIFIC COURSE OBJECTIVES:

The successful student will:

1. Learn the terminology used in the electronic industry.
2. Create a variety of drawings used in the electronic industry.
3. Apply basic drawing technique and theory to best commercial standards

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Electro-Mechanical Drafting Procedures and Practices
- II. Components in Electronics
- III. Fasteners, Materials and Finishes
- IV. Governmental Requirements
- V. Engineering Standards and Specifications
- VI. General Electronic Design
- VII. Graphic Symbols and Reference Designators
- VIII. Drafting of Electro-Mechanical Drawings

REQUIRED READING:

Frostad, John. Electronics Drafting. South Holland, Illinois: Good heart-Willcox Company, 2001.

SUGGESTED READING:

Trade journals and other publications as assigned by instructor.

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.
- 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 X 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:

SIGNATURES ON FILE