

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

_____ Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: CFT-165 Cabinetmaking/Face Frame Construction

UNIT VALUE: 2,3,4

MINIMUM NUMBER OF SEMESTER HOURS: 64,96,128 lecture/laboratory

BASIC SKILLS REQUIREMENTS: Appropriate language and computation skills

ENTRANCE REQUIREMENTS

PREREQUISITE: CFT-105

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Traditional face frame cabinet construction as applied in kitchens and bathrooms, Design, layout, and material analysis. Hands-on experience in carcass construction, face frames, partitions and construction of doors and drawers.

SPECIFIC COURSE OBJECTIVES:

Students will be able to:

1. Construct traditional face frame cabinets.
2. Identify and analyze shop drawings and cutting lists.
3. Compare and contrast residential cabinets to industrial standards.
4. Apply principles of shop safety.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Introduction
- II. Planning and Layout of Cabinets
 - A. On-Site Measurements

- B. Working Drawings/Blueprints
 - C. Rod and Stick Layout
 - D. Preparing Shop Drawings/Mill List
- III. Cabinet Design
- A. Visual Design
 - B. Functional Design
 - C. Space Utilization
 - D. Kitchen and Bath Design
- IV. Cabinet Materials
- A. Wood Technology
 - B. Woods Used in Cabinetmaking
 - C. Man-made Materials
 - D. Panel Processing
- V. Machining Wood
- A. Squaring Rough Lumber
 - B. Safety and Proper Use of Machines and Tools
 - C. Layout and Methods of Cutting Lumber
- VI. Face Frame Construction
- A. Cutting Stiles, Rails and Mullions
 - B. Joinery and Machining Joints
 - C. Face Frame Assembly
 - D. Gluing and Clamping
- VII. Carcase Construction
- A. Panel Processing and Machining
 - B. Joinery and Machining Joints
 - C. Assembly of Parts
 - D. Gluing and Clamping
 - E. Nailing and Nail Guns
- VIII. Door Construction
- A. Types of Cabinet Doors

- B. Styles and Construction of Doors
 - C. Joinery and Machining Parts
 - D. Hardware Selection
 - E. Hanging and Fitting Techniques
- IX. Drawers and Drawer Guide Systems
- A. Drawer Types and Styles
 - B. Drawer Materials and Design
 - C. Joinery and Machining Parts
 - D. Drawer Slides and Guides
 - E. Hanging and Fitting Techniques
 - F. Roll-out Trays and False Drawer Fronts
- X. Cabinet Installation
- A. Setting Base and Wall Cabinets
 - B. Leveling and Shimming
 - C. Scribing
 - D. Trim and Molding Installation
 - E. Hanging and Fastening Cabinets

REQUIRED READING:

Cabinet and Furniture Technology Safety Manual (Revised yearly)

Extensive instructor-originated class information sheets, which are then summarized and included in the instructor-evaluated notebook submitted by students.

SUGGESTED READING:

Calhoun, Ken. Cabinetmaking. Englewood Cliffs, CA: Prentice Hall, Inc., 1984. Fine Woodworking. The Taunton Press, Inc., Newton, CT.

Kitchen and Bath Design News. K.B.C. Publications.

Sun/Coast-Architect/Builder. Frank McKeller.

Cabinet Manufacturing and Fabricating Today. K.B.C. Publications. Builder's Kitchen and Baths. Kitchen and Bath Business Publication.

REQUIRED WRITING:

A Written 30-page notebook is required of all students. All drawings in the notebook will be redrawn to reproduction standards. Students will complete a minimum of two written exams, each exam consists of 3-4 written pages. Questions may include mathematical and algebraic functions, and analytical problem solving.

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.

Each student will complete a 30-page class notebook. Each student is responsible for required reading. Proper English grammar and structure is required.

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):

Final grades will be based on the following four factors:

1. Participation: 20%
2. Tests: 25%
3. Learning project: 30%
4. Notebook and design paper or product development: 25%

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

Yes No Number of times course may be taken for credit: 3

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 C2A

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SIGNATURES ON FILE