

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-168 Cabinetmaking/Architectural Millwork

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:

Historical and modern architectural millwork techniques used in frame and panel systems, doors, fireplaces, wall systems, staircases and built-in components. Hands-on experience on student selected projects may include woodcarving, woodturning, construction of doors and windows and the production installation of moldings.

SPECIFIC COURSE OBJECTIVES:

Students will:

1. Identify, analyze, and apply appropriate frame and panel joinery for door and wall systems.
2. Identify necessary procedures and skills mandatory to the design and construct of staircases.
3. Compare and contrast methods of fireplace mantel construction.
4. Identify the basic principles and usage of the wood lathe and of spindle turning.
5. Understand the theory and applications of architectural mill and marketable design.
6. Develop job entry level competence.
7. Demonstrate proficiency in architectural millwork from design through production.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

I. Introduction

II. Frame and Panel Systems

- A. Historic Survey
- B. Visual and Functional Design
- C. Joinery and Theory

III. Wall Systems

- A. Architectural Paneling
- B. Frame Systems
- C. Wainscot
- D. Chair Rails
- E. Crown Moulding
- F. Base Moulding
- G. Casing
- H. Cornice and Ceiling Moulding
- I. Built-In Components

IV. Door Systems

- A. Frame and Panel
- B. Batten
- C. Hollow Core
- D. Glass
- E. Interior
- F. Exterior
- G. Jambs

V. Window Systems

- A. Sash Stiles
- B. Sash Rails
- C. Muntin
- D. Casing
- E. Jamb
- F. Apron
- G. SM
- H. Stool
- I. Apron

VI. Frame Joinery

- A. Mortise and Tenon
- B. Stub Tenon and Groove
- C. Dowels
- D. Nfiter
- E. Spline
- F. Plate/Wafer

- G. S crews
- H. Cope and Stick

VII. Panels

- A. Raised
- B. Plywood
- C. Book Matched
- D. Carved

- VIII. Shaper
 - A. Automatic Feed
 - B. Collars
 - C. Cutters
 - D. Glue-Joint
 - E. Raise Panels
 - F. Cope and Stick
 - G. Jigs and Fixtures
 - H. Safe and Proper Machine Set-ups

Fireplace Mantels

- A. History Survey
- D. Design and Styles
- C. Moulding
- D. Joinery
- E. Milling Moulding
- F. Installation
- G. Trim

X. Stair Components

- A. Treads
- B. Risers
- C. Skirts
- D. Hand Rails
- E. Easements
- F. Goose Neck
- G. Milling Components
- H. Installation
- I. Trim

XI. Wood Turning

- A. Split Turnings
- B. Fluted
- C. Twist
- D. Balusters
- E. Post
- F. Duplicator
- G. Safe and Proper Use

XII. Carving Duplicator

- A. Panels
- B. Spindles
- C. Bits and Cutters
- D. Machine Set-up
- E. Safe and Proper Use

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 all students.

SUGGESTED READING:

Anthony Talbot. Handbook of Doormaking, Windowmaking, and Staircasing. New York: Sterling Publishing Co. Inc., 1982.

Rowland, Amy Z. Handcrafted Doors and Windows. Emmaus, PA: Rodale Press, 1986. Fine Homebuilding.
Newton: Taunton Press, Inc.
Wood. Vance Publishing Corp.
Cabinet Manufacturing and Fabricating Today. K.B. C. Publications, Inc. Furniture Design and Manufacturing.
Delta Publication, Inc,
Fine Woodworking. Newton: Taunton Press, Inc.
Woodsmith. Des Moines: Woodsmith Publishing Co,
Wood. Des Moines: Meredith Publishing.

REQUIRED WRITING:

A written thirty-page notebook is required of all students. Students will, within a period of one week, rewrite their notes taken in class, supplementing and augmenting such class notes with information derived from suggested reading (see listing) and instructor-originated information sheets. All drawings in the notebook will be redrawn to reproduction standards. Students will complete a minimum of two written exams, each exam consists of 34 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 thirty-page class notebook. Each student is, responsible for required reading. Each student is responsible for rewriting their lecture/demonstration notes taken in class, adding relevant information derived from the 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 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 X 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 D2A

CONTACT PERSON: Chris Feddersohn ext. 2556

SIGNATURES ON FILE