

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: CFT-111 Machine Tool Joinery II

UNIT VALUE: 2,3,4

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

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: CFT-110 Machine Tool Joinery I

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Completion of student built cabinet furniture project that incorporated solid wood and traditional joinery in its design. Students will explore door and drawer construction methods, furniture hardware, and various finishing choices. Creation of special moldings and spindle turnings for decorating the carcass will also be explored.

SPECIFIC COURSE OBJECTIVES:

Students will be able to:

- I. Identify the basic principles and usage of the lathe for spindle turning.
2. Sharpen tools used for turning on the lathe and create a simple spindle turning.
3. Compare and contrast various styles of moldings used to decorate a carcass.
4. Identify various types of drawers used in quality furniture.
5. Understand types and qualities of drawer guide systems as to their desired usage in a given problematic situation.
6. Identify, analyze, and apply appropriate joinery to various types and styles of doors.
7. Properly locate and fasten hardware that relates to their furniture.
8. Properly machine and fabricate dovetail drawers using one of several machine options as demonstrated in class.
9. Properly fit a door and drawer to a carcass.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Carcass trim and Detail
 - A. Moldings
 - B. Pediments
 - C. Open collar machining
 - D. Split turnings using the lathe
- II. Door types and construction
 - A. Arched raised panel construction
 - B. Retractable doors
 - C. Tambour doors
 - D. Glazed doors
 - E. Coopered doors
 - F. Fall front doors
- III. Furniture hardware
 - A. Selection
 - B. Sources
 - C. Installation
- IV. Drawer types and construction
 - A. Lumber selection/Grain orientation
 - B. Drawer bottom considerations
 - C. Wood drawer guide systems
 - D. Half-blind dovetails with router jigs
 - E. Cock beading
 - F. Special drawer applications
 1. Serpentine drawers
 2. Block front drawers
- V. Door and drawer installation to the carcass
- VI. Finishing
 - A. Surface preparation
 - B. Spraying lacquer
 - C. Oil varnish mixes

REQUIRED READING:

1. Extensive instructor originated handouts.
2. Selected published articles provided by the instructor.

SUGGESTED READING:

Feier, John L. Furniture and Cabinetmaking. Peoria: Charles A. Bennet Company, Inc., 1983
Frid, Tage. Joinery Tools and Techniques. Newtown: The Taunton Press, 1985.
Ernest, Joyce. Encyclopedia of Furnituremaking. New York: Sterling Publishing Company, Inc., 1979.
Fine Woodworking. The Taunton Press, Inc. Newton, CT.
The Woodworker's Journal. Madrigal Publishing Company. New Milford, CT
Woodsmith. Woodsmith Publishing Company. Des Moines, IA.
Wood. Meredith Publishing Company. Des Moines IA.
The American Woodworker. JM Publications Inc., Hendersonville, TN.

REQUIRED WRITING:

A written notebook is required of all students which is to include instructor given handouts and lecture notes. A detailed project folder is also required as well as a written examination.

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 class notebook and project folder. Each student is responsible for required reading.

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:

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| 1. Participation: | 20% |
| 2. Tests: | 25% |
| 3. Learning Projects: | 30% |
| 4. Notebook, 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 © (2) (A)

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SIGNATURES ON FILE: