Form Version: February 2001 EFFECTIVE TERM: Fall 2001_

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-163 Plastic Laminate Fabrication Techniques

UNIT VALUE: .5, 1.0

MINIMUM NUMBER OF SEMESTER HOURS: 16/32

BASIC SKILLS REQUIREMENTS: Appropriate language, writing and computation skills

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE: This course examines the manufacturing process for plastic laminate products, including tools, adhesives, jigs, application and installation techniques. Lectures, demonstrations, and hands-on exercises will give students the opportunity to develop the proficiency and knowledge to design, build and install plastic laminate products.

SPECIFIC COURSE OBJECTIVES: The student will:
1. Demonstrate knowledge of shop safety.
2. Examine how plastic laminate is manufactured.
3. Discuss various applications for plastic laminate.
4. Demonstrate hand tools, jigs, and machinery used in fabrication process.
5. Demonstrate proper selection and correct application procedures.
6. Complete student project using plastic laminate products.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

I Course Introduction
1. Define and discuss plastic laminate products.
2. History and evolution of plastic laminate.

II Tools and Machinery
1. Hand tools.
2. Routers, jigs, router bits.
3. Table saw, panel saw.

III Adhesives
1. Water based contact cement.
2. Solvent based contact cement.
3. Aerosol adhesives.
4. Application tools and techniques.

IV. Fabrication Techniques
1. Handling and storage.
2. Ripping and cross-cutting on table saw.
3. Cross-cutting on panel saw.
4. Cutting with shears and carbide scribe tools.
5. Routers-trimming and seaming.
6. Hand slitter.

V. Kitchen Countertops
1. Selecting a substrate.
2. Cutting and assembly of substrates.
3. Laminate layout and seam location.
4. Backsplash design and installation.
5. Sink and stove cutouts.

VI Countertop Installation Techniques
1. Shop built verses site built countertops.
2. Transporting
3. Template design
4. Scribing techniques
5. Fastners

VII Custom Edge Treatments
1. Radius corners
2. Solid wood
3. Customer manufactured products

VIII Various Other Uses
1. Shop fixtures
2. Commercial Cabinetry
3. Cabinet refacing

VIX Student Project
1. Design and manufacture approved project utilizing plastic laminate

X Evaluate Student Project

REQUIRED READING:

Selected published articles on plastic laminate fabrication: tools, methods, and techniques

SUGGESTED READING:

Kimball, Herrick. Making Plastic Laminate Countertops. Newtown, CT: The Taunton Press, 1996

Kimball, Herrick. Refacing Cabinets-Making An Old Kitchen New. Newtown, CT: The Taunton Press, 1997

REQUIRED WRITING:
Required notebook for class notes and instructor handouts.

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.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:
_____ lecture
_____ laboratory
_X_ 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_X__

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):

Attendance and participation	50%
Safety standards	10%
Skill development	20%
Student project	20%

Final examination will consist of evaluation of student project and demonstration of proficiency of required skills and knowledge.

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@(2)(A)

CONTACT PERSON:

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SIGNATURES ON FILE