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: AP C 222 Roof Framing II

UNIT VALUE: 1.5

MINIMUM NUMBER OF SEMESTER HOURS: 40

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: AP C 221

COREQUISITE: None.

RECOMMENDED PREPARATION: None.

SCOPE OF COURSE:

This course is a continuation of Roof Framing I, and will review rafter theory, and introduces hip and intersecting roofs, blind valley and dormer construction. Mathematical calculations for various rafter lengths and safety will also be covered.

SPECIFIC COURSE OBJECTIVES:

Students will be able to:

1. Analyze and apply information from roof framing plans for more complex roof designs
2. Calculate the span, run and unit of rise for various complex roof designs
3. Identify various types of roofs and their application
4. Demonstrate the ability to layout and assemble a hip and an intersecting roof

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

I. Identification of various types of roof structures
   A. Hip
   B. Intersecting
   C. Blind valley and dormors

II. Location and use of roof framing blueprints
   A. Roof framing print
   B. Structural connections to walls
   C. Trust manufactures specifications

III. Mathematical methods used in the calculation of various types of rafters.
   A. Calculations to determine distance of span
   B. Calculations to determine pitch
   C. Calculations to determine unit of rise

IV. Assembly of a gable roof.
   A. Conventional roof framing
   B. Trust system

V. Building codes reviewed as applied to roof structures.

REQUIRED READING:

Koel, Leonard. Carpentry. Homewood: American Technical Publishers, 1997

Riechers, A.F. Full-Length Roof Framer. Palo Alto: A.F. Riechers, revised 1992

Carpenters 46 Northern California Counties JATC. Construction Mathematics. Oakland: Self-published 1991

Carpenters 46 Northern California Counties JATC. Introduction to Working Drawings. Oakland: Self published 1991

SUGGESTED READING:

None.

REQUIRED WRITING:

Completion of written assignments in student workbook consisting of ten to twelve pages in length.

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.

Students will read assigned text and workbook assignments.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:
_X_ lecture
_X_ 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_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):

Class Participation	10%	A = 100 – 90
Quizzes	20%	B = 89 – 80
Lab/Shop Projects	20%	C = 79 – 70
Workbook	20%	F = Below 70
Final Exam	30%	
	100%	

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 Part C 2A

CONTACT PERSON: Director, Vocational Programs, Ext. 2286

Signatures on File