Last updated: 9/99

SAN BERNARDINO VALLEY COLLEGE

COURSE OUTLINE FOR FLOOR 010C
Flooring Installation: Ceramic Tile

I. CATALOG DESCRIPTION:

Department: Floor Covering
FLOOR 010C: Flooring Installation: Ceramic Tile
½ hour lecture, 1 ½ hours laboratory = 1 unit
Catalog Description: Theory and practical application of techniques for installation of ceramic tile, including methods of measuring, selecting appropriate products, and installation. Employment in the industry will also be addressed.
Schedule Description: Instruction and practical application of techniques for installation of ceramic tile.
Prerequisite/Corequisite: None

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: One

III. EXPECTED OUTCOMES FOR STUDENTS:

Upon completion of this course, students will be able to:

A. Correctly calculate material for various floor configurations and flooring materials.
B. Install ceramic tile using appropriate adhesives, cutting techniques, and installation methods.
C. Use correct tools for cutting and installing ceramic tile.
D. Demonstrate employability skills, including work habits and ethics, teamwork, communication skills, and writing a resume/job application.
E. Define trade organizations, such as union shops, non-union shops, and industry suppliers.
F. Identify characteristics of various materials used in the trade.
G. Practice appropriate safety measures for ceramic tile installation.

IV. CONTENT:

A. Ceramic Tile
   1. Safety measures for installing ceramic tile
   2. Types of ceramic tile
   3. Grout material - proper techniques for mixing and storing
   4. Use of quarter rounds, finishing moldings, and reducers
   5. Proper adhesives used with various mosaic, ceramic, and quarry tiles for commercial and residential installation
   6. V-caps and the various types of moldings
   7. Ceramic tile floor preparation
   8. How to spread adhesive on foundation correctly to provide even surface
   9. How to correctly measure and estimate quantity of tile for various types and shapes of floors.
   10. Appropriate tools and methods used in installing ceramic tile

11. How to measure and install various border materials for custom installation
12. Sealing and treating floor techniques

B. Employability Skills
1. Job information
2. Working relationships, teamwork, and cooperation
3. Resume, letters, and job application
4. Work habits and ethics, punctuality, and a positive attitude as necessary to employment
5. Grooming and dress standards for interview
6. Job application: Legibility, correctness, and completeness

V. METHODS OF INSTRUCTION:

The methods of instruction include, but are not limited to:

A. Lecture and demonstration by instructor

B. Guided laboratory practice by the learner

C. Guided field experience by the learner and demonstrations by field experts

VI. TYPICAL ASSIGNMENTS:

A. Read assigned material from textbook and prepare to discuss topics in classroom discussion.

Typical Questions:

1. Identify various types of ceramic tile.
2. Identify grout material and the proper techniques for mixing and storing.

B. Calculate floor material necessary for a given room configuration using flooring worksheets and formulas.

C. Complete a log of field experiences, i.e. the differences in flooring installation due to flooring type.

D. Write a resume and complete a job application appropriate for acquiring a position in the flooring industry.

VII. EVALUATION(S):

A. Methods of Evaluation:

1. Oral and written tests

Typical Questions:

a. Describe appropriate use of quarter rounds, finishing moldings, and reducers.

b. Identify V-caps and the various types of moldings.

2. Successful completion of field tasks in accordance with classroom instruction and field expert's guidance by installing a sample flooring project.
3. Completion of field log demonstrating understanding of installation procedures.

B. Frequency of Evaluation:

1. Weekly test
2. Minimum of ten field tasks
3. Minimum of ten field logs

VIII. TYPICAL TEXT(S):

Builder's Guide to Floors, Peter Fleming, 1997
Floor Covering: Resilient Coverings - Mathematics Review, California Department of Education, 1994

IX. OTHER SUPPLIES REQUIRED OF STUDENTS:

To comply with OSHA safety standards and recommended product safety measures, students will need to use the following during lab/field experiences:

Safety glasses*
Back brace*
Face mask*
Knee pads (optional)*
Carpet knife*
Utility knife*
Utility knife replaceable blades*
Knife pouch*
Linoleum knife*
Carpet shears*
25' tape measure*
Hammer
Wood nails (1-1/4")
Trimmer blade
Carpet blade
Hook blade
Aviation snips
Rubber gloves
Cement nails (½")(3/4")
Cutting blade
7" tin snips (for tack strips)
Seaming tape
Seaming iron
Knee kicker
Multi-purpose wall trimmer
Cushion back trace cutter
Stair tucking tool
Drawer stretcher
Hammer stapler and staples
Vacuum cleaner (shop vac)
Electric tacker
Carpet and linoleum roller
Power stretcher
Straight edge 3'
Drive bar
Level 3'
Chalk line
Triangle (for border)
Trowel (carpet, vinyl)
Spreader (adhesive)
Tile cutter
Sponges
VCT tile cutter
Grout float
Jig saw (wood)
Wet cutter (ceramic tile)
Table saw or redial arm
Tack strip (consumable)
Carpet tape (consumable)
Steel rollers
Star action roller
Ripping bar molding lifter

*Each student needs to purchase