COURSE OUTLINE

DEPT. CRPT       COURSE NO.  2255

INSTRUCTOR: Luke Olson

COURSE TITLE   Cabinet Making

CATALOG DESCRIPTION   In this course the student will be trained to analyze cabinet needs and available spaces and design cabinets for specific uses. Drawing up of basic construction plans is an integral part of this course. Also, this course includes the construction of a variety of cabinets including kitchen units, linen closets, vanity cabinets and built in work stations. Lastly, the students will go through the process of cabinet installation methods, counter top construction and installation, and finishing of areas such as kitchens and bathrooms

AUDIENCE  Second year carpentry students

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: First year carpentry, persons skilled in carpentry basics

LENGTH OF COURSE     1 lecture, 4 lab credits

THIS COURSE IS USUALLY OFFERED:
Fall

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The student will attain knowledge of methods of cabinet installation needed to successfully complete a kitchen setup knowledge of the materials involved, estimating of materials, efficient use of space, cabinet arrangement, cabinet design, specific joinery and counter tops.

2) THINKING SKILLS: Estimating, layout techniques, space planning, finishing techniques, working with others. The student will perform these skills in a real situation and determine the best methods for the job at hand.

3) COMMUNICATIONS SKILLS: Materials ordering, maintaining schedules, working with fellow students in the process in achieving acceptable results.

4) HUMAN DIVERSITY: The student should be aware of such situations as would be a problem with handicap assess ability, and reach ranges of the average person
TOPICS TO BE COVERED:  Cabinet materials available, cabinet styles, assembly methods, types of joinery, special features, specific uses and needs

LIST OF EXPECTED COURSE OUTCOMES:

01 Identify cabinet layout general rules
02 Efficient arrangement of cabinets
03 Allowance for work station spaces in kitchens
04 Design a kitchen layout including special features
05 Select and estimate material for cabinet construction
06 Arrange appliances for efficiency. (work triangle)
07 Identify industry standards for dimensioning
08 Identify and create special joinery for cabinet making standards
09 Identify cabinet parts by name
10 Identify various counter top materials
11 Identify counter top standard dimensioning
12 Draft cabinet layout designs
13 Draft cabinet working plans.
14 Create a practice project of various joinery
15 Identify cabinet layout general rules
16 Identify methods of assembly with manufactured cabinets
17 Identify various species of wood
18 Identify and work with a variety of plywood products
19 Estimate labor and materials for a cabinet project
20 Identify components of a cabinet face frame
21 Identify components of a cabinet box, back, and rails
22 Identify and install specialty cabinet hardware (hinges, guides, etc.)
23 Identify and assemble drawer parts
24 Prepare cabinet materials list
25 Prepare a cabinet parts cutting list
26 Assemble face frames by pocket fasteners.
27 Assemble face frames by bisquet fasteners
28 Assemble face frames by doweling
29 Identify, fabricate, and assemble raised panel doors, flush doors, and lip doors.
30 Fabricate and assemble cabinet boxes, face frames, shelves and doors, so as to be ready for installation.
31 selection of appropriate fasteners for the situation.
32 story pole application
33 appliance locations
34 joinery methods
35 location and identification of mounting methods
36 assembling wall sections and base sections
37 methods of attaching island sections
38 installation of cabinet accessories
39 measuring for counter tops
40 recognizing different styles of counter tops
41 selecting laminate products
42 assembly of laminate tops
43 installing various types of counter tops
44 design and installation of trim and detail work
45 adjustment and alignment of doors and drawers
46 Installation of specific and unique hardware

LEARNING/TEACHING TECHNIQUES used in the course are:
Collaborative Learning     Problem Solving
Interactive Lectures       Lab
Creative Projects           Individual Coaching
Lecture                    Films/Videos/Slides
Demonstrations

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
Reading                     Individual Projects
Collaborative Projects      Group Problems
Tests

EXPECTED STUDENT LEARNING OUTCOMES: The student should be able to
layout and design a whole kitchen plan which would include working drawings and
special features. Also, The student should be able to estimate materials for cabinets, make
cutting lists from working drawings, cut and assemble parts to attain a completely ready
to install cabinet. Lastly, the student should be able to accomplish laying out and
installation of a set of kitchen cabinets and counter tops.

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family
members in achieving their educational goals efficiently. Active duty and reserve/guard
military members should advise their instructor of all regularly scheduled military
appointments and duties that conflict with scheduled course requirements. Instructors will
make every effort to work with the student to identify adjusted timelines. If you are a
veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the
campus Student Services Advisor or campus Disability Coordinator as arrangements must be
made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by
contacting the Student Services Advisor or by calling 800-658-2330 or
Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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The information in this course outline is subject to revision.