



WDWK 1413 CABINETMAKING I SYLLABUS & COURSE OUTLINE

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Office hrs. : 8:00 am-9:00am Tuesday

Course description:

WDWK 1413 CABINET MAKING (4-3-3). Introduction to cabinet construction, using typical carcass joinery, and hardwood face frame joinery. Students learn correct and safe methods of millwork, and install plastic laminate and hardware. Prerequisites: CNBT 1411 or instructor approval.

Course Objectives:

Each student will build two required projects, a paint grade base cabinet and a router table. Through the building process, the student will learn safe and proper woodworking technique and tool use. Materials for both projects are furnished by ACC and the finished projects are for the students to take home.

Instructional Methodology:

Instruction will be conveyed through a combination of lecture and actual demonstration.

Course Outcomes:

Upon successful completion of this course the student will have:

1. Determined lumber and plywood requirements and prepared a cut sheet.
2. Cut and assembled all pieces using appropriate tools and joinery.
3. Built jigs to aid in joinery
4. Constructed a plywood drawer using rabbet and dado joints
5. Constructed a raised panel door
6. Installed door and drawer hardware
7. Applied plastic laminate to the countertop
8. Constructed a router table using mortise & tenon joinery

WDWK 1413 CABINET MAKING I

Course Outline

Base Cabinet

1. Discuss properties of wood, hardwood and hardwood plywood grading
2. Discuss how and where to buy cabinet material
3. Determine a cut list for the base cabinet project
4. Discuss proper handling and storage of materials
5. Use a table saw to rip plywood carcass parts
6. Use a radial arm saw to crosscut plywood carcass parts
7. Use a router to produce rabbet and dado joints for shelving
8. Assemble carcass parts using glue and finish nailers
9. Use a compound miter saw to cut out toe board pieces
10. Use biscuit joinery to join toe board pieces
11. Build a jig to produce blind half-lap joints for joining a face frame
12. Assemble and install face frame
13. Sand, sand, sand
14. Determine cut list, construct and install a drawer using euro-style drawer guides
15. Determine cut list, construct and install a solid wood raised panel door
16. Build a plywood countertop and apply plastic laminate

Router table

1. Discuss mortise and tenon joinery
2. Determine cut list for router table
3. Cut out legs and rails
4. Chop out mortises using a plunge router and spiral router bit
5. Cut tenons using a router
6. Fit tenons to mortises using a chisel, file and shoulder plane
7. Glue and clamp table frame pieces
8. Cut and install a melamine top
9. Install a router in the top (if student has a router)



WDWK 1413 CABINET MAKING I

Student Responsibilities:

Students are expected to:

1. Attend and be productive at all class meetings
2. Bring required [tools](#) and supplies to all class meetings:
 - a. **eye & ear protection**
 - b. **tape measure**
 - c. **hammer**
 - d. **combination square**
 - e. **pencils**
 - f. **cabinet plan**
3. Adhere to the course outline
4. Follow all safety procedures

Grades:

Final grades are based on:

1. **Attendance** – more than two absences will drop your grade one letter.
2. **Skills development:**
 - a. Measuring
 - b. Ability to determine cut lists
 - c. Tool use
 - d. Fabrication
 - e. Safety
3. **Class preparedness** – regularly forgetting to bring tools and supplies will drop your grade one letter.

Textbooks:

No textbook is required. Students will build a textbook from hand-outs.

Exams:

No written exams will be given.

Withdrawals:

The student is responsible for withdrawing. If you stop attending class without withdrawing, you will receive a failing grade.