Woods I

Course Outline

18 Weeks

- I. Planning
 - A. Sketching
 - B. Drawing
 - C. Designing
 - D. Computing lumber measurement.
 - E. Preparing a bill of materials.

II. Woods

- A. Wood classification.
- B. Lumbering industry.
- C. Wood defects.
- D. Grading wood.
- III. Safety (ongoing)
 - A. General Shop.
 - B. Portable Hand Tools.
 - C. Stationary Machines.
- IV. Woodworking Machines
 - A. Saws
 - 1. Radial arm.
 - 2. Bandsaw.
 - 3. Circular saw.
 - i. cross-cut.
 - ii. rip.
 - 4. Safety Demo's / Quiz.
 - B. Planing
 - 1. Jointer.
 - 2. Surfacer.
 - 3. Safety Demo's / Quiz.

V. Drilling

- A. Bits.
- B. Portable Drills.
- C. Drill Press.
- D. Safety Demo's.
- VI. Drawing Project.
 - A. Structured Design.
 - B. Construction.
 - C. Design Exchange.

VII. Sanding

- A. Abrasives
 - i. types.
 - ii. styles.
- B. Hand sanding
- C. Machine sanding.

VIII. Finishing

- A. Filling dents / defects
- B. Wood filler.
- C. Grain raising.
- D. Thinners.
- E. Stains.
- F. Top coats.
- G. Penetrating finishes.
- H. Proper clean -up.
- I. Environmental / Health concerns.

IX. Lathe Project

- A. Design.
- B. Video Large group.
- C. Demo Small group.
- D. Lab.
- X. Routing
 - A. Table Router.
 - B. CNC router Master CAMM Inventor
 - C. Canned Project.
- XI. Fasteners
 - A. Glues.
 - B. Nails.
 - C. Screws.
 - D. Clamps.

XII. Jig & Fixturing

- A. Guiding the tool bit.
- B. Guiding the workpiece.

XIII. Folding Stool Project.

- A. Reverse Engineering.
- B. Build Prototype.
- C. Lab.

XIV. Student Project

- A. Design.
- B. BOM/POP
- C. Lab.