



FRANKLIN STREET FINE WOODWORK

Syllabus: Beginning Woodwork 3 Day Class

Introduction

- Studio tour (first aid kit etc.)
- Studio policy – read through with class

The Project Process

1. Project Design
2. Wood selection
3. Milling
4. Joinery
5. Construction
6. Finish Prep
7. Finishing

1. Project Design

Introduction of furniture design

Tools Needed: Pencil, ruler, imagination, eraser, quad lined paper

- Conceptual
- Construction drawings and joinery plans
- Cut Lists

2. Wood Selection

Tools Needed: Tape measure, cut list, project requirements

Introduction to lumber and how to select lumber:

- What woods work best for what project
- What are generally available woods
- Where do I buy my wood
- How to calculate how much wood you will need
- What to look for when buying wood

3. Milling

Introduction to Milling.

- Straight, Square, Flat and True
- Problems in wood – cupping, twisting etc how to solve or not
- Methods of milling
- Difficult woods – useful techniques

Machinery Part 1

Machines - Use, set-up and safety

- Miter saw

Student Hands On Work Period

Student work on steps 1 – 3 using a pre determined set of guide lines.

Machinery Part 2

Machines - Use, set-up and safety

- Jointer

Student Hands On Work Period

Student work on steps 1 – 3 using a pre determined set of guide lines.

Machinery Part 3

Machines - Use, set-up and safety

- Planer

Student Hands On Work Period

Student work on steps 1 – 3 using a pre determined set of guide lines.

Machinery Part 4

Machines - Use, set-up and safety

- Table saw

Student Hands On Work Period

4. Joinery

Introduction to Joinery

- What joints to use, when, where how.
- Advantages & disadvantages
- Overview & demonstration of simple joints (e.g., butt joints/half lap)
- Overview & demonstration of mitre joints
- Overview & demonstration of mortise & tenon

Machinery Part 5

Machines - Use, set-up and safety

- Router – Plunge/Fixed

Student Hands On Work Period

5. Construction

- Introduction to Adhesives
- The glue up process
- Introduction to Clamps and clamping strategies

6. Finish Preparation

- The sanding process/Surface Preparation
- Sandpaper
- Overview of sanders, set up and use

Student Hands On Work Period

Shop Clean up

Day 3**Review of Day 2****Plans for Day 3**

- Removing glue
- Fixing dings/dents/holes
- Dry clamping

Student Hands On Work Period

Student work on steps 1 – 6 using a pre determined set of guide lines.

7. Finishing

- Introduction to finishing
 - Dyes
 - Stains
 - Glazes
- Finish products advantages & disadvantages
 - Oil & Oil/Varnish
 - Shellac
 - Polyurethane
 - Lacquer
- Rubbing out

Student Hands On Work Period

Student work on steps 1 – 7 using a pre determined set of guide lines.

Shop Clean up**Review of Day 3****Individual presentation and critique of tables****Group critique of 3 day class and recommendations****End of class**