

# Box Making Syllabus

## Introduction to Basics of Box Making

- Design
  - o Case/Top/Base
  - o Wood selection
  - o Function
  - o Hardware selection
    - Hinges
    - Locks
    -
  - o Finishing
- Preparing Stock
- Joinery
- Construction
- Finishing

## Case Design & Construction

### Introduction to Joints for Box Assembly:

1. Butt Joint Box
2. Rabbet Joint Box
3. Lap Joints
4. Bridle Joints
5. Miter Joint Box
6. Splined (Keyed) Mitered Box
7. Box Joint Box
8. Lock miter Box
9. Dovetail

### Techniques for Case Panel Bottoms:

1. Grooved (captured) bottoms
  - a. Full Width
  - b. Partial Width
2. Rabbet Bottoms

### Techniques for Case Dividers

1. Built in
2. Insert
3. Case Lining

### Techniques for Lid Attachments on Box

1. Built in Rabbets/ledges

2. Inserts
3. Hinges
  - a. Butt Hinges
  - b. Surface Mounted
  - c. No Mortise
  - d. Mortised
    - i. Full Width
    - ii. Part Width
    - iii.

### **Lid Design & Construction**

1. Slab lids
2. Rabbeted lids
3. Frame and Panel
  - a. Chamfered
  - b. Fielded
    - i. Rabbeted
    - ii. Coved
    - iii. Tapered
    - iv. Raised
  - c. Integrated Lids
4. Frame and Panel Joinery
5. Lid Attachment
  - a. Hinges
  - b. Inserts
  - c. Handles

### **Base Design & Construction**

1. Feet
  - a. Chamfered
  - b. Molding & Block
  - c. Turned/Attachments
  - d. Bracket
  - e. Scrolled/Mitered
  - f. Extended

Day 1:

- **Box 1:** Mitered Box with Rabbeted based and Rabbeted Lid (poplar and/or maple) Gloss finish with oil & wax
- **Box 2:** Rabbet Joint Box with sliding slab lid (oil & wax)

Day 2:

**Box 3:** Box Joint Box with Full Width Bottom with Integrated Lid (walnut and/or cherry) Shellac finish

Day 3

**Box 4:** Splined Miter Box with Integrated Coved Lid & surfaced hinges (Sapele and/or Nogal) (Water based poly)

Day 4 & 5:

**Box 5:** Student choice box case. Slab lid with mortised butt hinges, molded block based, lining, 4 compartments, bracket feet (lumber student choice) (finish spray lacquer exterior,)