

# COURSES

## PROFESSIONAL CRAFTS: WOOD

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### **PCW-110 Intro to Woodworking**

**Lec 3 Lab 15 Clinic 0 Credit 8**

This course introduces the properties of wood, basic machine and tool use and safety, box design and construction, and various furniture joinery for woodworkers. Topics include the technical study of wood, hand woodworking methods of box making, assorted box and framing joinery, and hand finishing methods. Upon completion, students should be able to demonstrate woodworking joinery, box design and construction techniques, and knowledge of wood properties and their effect on furniture design.

**Co-Requisites:** None

**Pre-Requisites:** None

### **PCW-111 Framing Joinery/Design**

**Lec 3 Lab 15 Clinic 0 Credit 8**

This course introduces design embellishment techniques and design and construction of various furniture functions through the use of framing structures. Topics include designing and making mirror frames, stools, benches, coffee tables, and dining tables, with emphasis on specialty techniques such as woodbending, veneering, and finishing. Upon completion, students should be able to design and make furniture and accessories utilizing framing construction and specialty design techniques.

**Co-Requisites:** None

**Pre-Requisites:** PCW-110 and be enrolled in 30360;

### **PCW-112 Production Design**

**Lec 2 Lab 6 Clinic 0 Credit 4**

This course covers the design, construction, and cost analysis of small-scale production items targeting various price points. Topics include basic market research, production, jigs and fixtures, time studies, and the making of various production prototypes such as lamps, cutting boards, and boxes. Upon completion, students should be able to design, make, and cost out production items for various price points.

**Co-Requisites:** None

**Pre-Requisites:** None

### **PCW-120 Drafting for Woodworkers**

**Lec 1 Lab 2 Clinic 0 Credit 2**

This course introduces the concepts, techniques, and tools of freehand and mechanical drawing as applied to furniture design and construction. Emphasis is placed on basic drafting conventions and techniques, freehand drawing skills, orthographic and isometric drawing, conceptual drawing, and working and presentation drawings. Upon completion, students should be able to utilize the design process beginning with an idea and progressing through conceptual, working, and presentation drawings.

**Co-Requisites:** None

**Pre-Requisites:** None

### **PCW-122 Furniture Design History**

**Lec 2 Lab 0 Clinic 0 Credit 2**

This course covers the historical development of furniture design of western civilization from ancient Egyptian society through the twentieth century. Topics include design themes, styles, and furniture functions of major historical periods from King Tut to late twentieth-century independent designer craftsmen. Upon completion, students should be able to recognize sources of historical design themes and contemporary applications of design in woodworking.

**Co-Requisites:** None

**Pre-Requisites:** None

### **PCW-136 Wood Finishing**

**Lec 1 Lab 3 Clinic 0 Credit 2**

This course covers wood finishing options with hand, brush, and spray applications, including special finishing effects. Topics include finish compositions, including oils, varnish, lacquer, paints, dyes, and stains, and special techniques such as fuming, bleaching, and pickling. Upon completion, students should be able to demonstrate various special finishing techniques and skills through samples and completed projects.

**Co-Requisites:** None

**Pre-Requisites:** None

### **PCW-210 Chair Design & Const**

**Lec 2 Lab 15 Clinic 0 Credit 7**

This course covers the design and construction of various seating functions and the associated woodworking technology for chair-making. Topics include design of chair prototypes, testing of structures, advanced woodbending, carving, jigs and fixtures, and coloring methods of finishing. Upon completion, students should be able to design, test, and make a chair and demonstrate various advanced specialty woodworking techniques.

**Co-Requisites:** None

**Pre-Requisites:** None

**PCW-211 Casework Design & Const**

**Lec 2 Lab 15 Clinic 0 Credit 7**

This course covers case goods design and construction through an independent project that demonstrates professionalism in a craft business. Topics include the study of various case goods' functions such as dressers, desks, and cabinets and the independent development of a professional quality project. Upon completion, students should be able to design and make a case work piece of furniture and demonstrate professionalism in a project of their choice.

**Co-Requisites:** None

**Pre-Requisites:** None