

## **CONSTRUCTION**

The Construction Program is for all students regardless of their experience in woodworking. Enjoy access to a woodworking shop fully equipped with modern machinery, high quality hand tools, and stocked with beautiful hardwoods and high grade softwoods. Construction (formerly “Woodworking”) is an excellent way to learn craftsmanship and provides a good complement for your high school academic classes. Previous students have made their own skateboards, longboards, electric guitars, speaker-boxes, veneered chess boards, snowboards, skis, as well as tables, storage cabinets, stools, and more. Classes are a blend of Construction 10 (Introductory), Construction 20 (Intermediate) and Construction 30 (Advanced) students.

### **CONSTRUCTION 10: (5 Credits)**

Construction 10 is designed to introduce students to the planning, designing and construction of a variety of projects. Students learn the safe use of hand tools and power tools, project management, theories and practice of building with solid wood, fundamentals of wood turning (lathe), and the roles and types of manufactured woods. Projects are prescribed in order to safely learn all tools in the shop in a systematic manner. However, students who work efficiently will have time for a project of their own interest at the end of the semester.

### **CONSTRUCTION 20: (5 Credits)**

Construction 20 is for the student wanting to enhance the planning, design and construction skills that they learned in the introductory level. Students go beyond building from a plan to modifying existing plans to constructing one-of-a-kind creations. A wider array of power tools, machining techniques and wood properties are used to enhance the look and complexity of the students’ projects. Students learn to use multiple materials (wood, glass, plastics), cabinet/box construction, frame-and-panel construction, enhanced finishing techniques, and a project of their choice. Additional fees may be required for some optional projects.

### **CONSTRUCTION 30: (5 Credits)**

Construction 30 is designed to further enhance student planning, designing and construction skills. Students learn proper techniques of tool maintenance, leg-and-rail construction, veneering processes, and two minor or one major advanced level project of their choice. Students completing Construction 30 will have entry level skills for the woodworking industry, as well as excellent transferable hands-on-skills that are useful for a multitude of other careers. Additional fees may be required for some optional projects.

**CONSTRUCTION K & E COURSE** (by consent of Guidance)

In this course, the students learn the basics of woodworking, safety and equipment used for woodworking.