

## **CONSTRUCTION 10**

### **Cabinetry and Furniture Building**

This course will allow you to demonstrate your ability to design and work with various materials within the construction lab. We will focus on work habits, safety, communication, teamwork and you will develop creative problem solving techniques while building projects. Your goal in this course should be to develop basic competencies while working safely with both hand and power tools.

#### Module Descriptions

##### **Con 1010: Construction Tools and Materials**

Students develop basic hand tools and production skills to transform common building materials safely into useful products.

The student will:

1. identify and describe the safe use of basic hand tools
2. identify and compare the properties of common materials used in construction activities
3. apply construction processes and skills to produce a product
4. demonstrate basic competencies within the shop environment

##### **Con 1120: Product Management**

Students develop basic shop drawings and estimating skills and apply them to build a product.

The student will:

1. Prepare a full size shop drawing
2. Prepare a material estimate and work schedule
3. Construct a product with multiple parts

##### **Con1130: Solid Stock Construction**

Students develop basic hand and power tool skills to build a product made from solid wood.

The student will

1. identify and describe the physical characteristics of a variety of hard and soft woods
2. follow a set of detailed drawings
3. construct a wooden product, using basic joinery techniques

##### **Con 1160: Manufactured Materials**

Students select the appropriate materials and tools to build a product structure from a wood composite or other manufactured material.

The student will:

1. Identify and describe the characteristics of common manufactured materials
2. Demonstrate the safe use of a given power tool
3. Create a product from a manufactured material

##### **Con 1910: Con Project A**

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

The student will:

1. Identify the connection between this project course and two or more CTS courses
2. Meet goals as defined within the plan
3. Propose the project and/or performance

**Optional:**

**Con 1140: Turning operations**

Students use wood turning equipment and techniques to create a faceplate and spindle turning made from solid stock.

The student will

1. Demonstrate the safe use of the wood lathe
2. Design and prepare a template
3. Use of a wood lathe to produce a face plate and a spindle turning product

**Evaluation**

**Percentage**

Knowledge

25%

- Written assignments
- Quizzes
- Personal inventory

Skills

60%

- Application of construction knowledge and processes

Basic Competencies

15%

- Participation
- Communication
- Manage information
- Use numbers
- Think and solve problems
- Demonstrate positive attitudes and behaviors
- Be responsible
- Be adaptable
- Learn continuously
- Work safe and efficient
- Work with others

**Lab Clean-up:** Each student will also be responsible for an area of lab clean-up. A portion of the student's grade will be dependent on efforts during this time in class.

Digital Citizenship is the appropriate and responsible behavior with regard to technology use. Digital citizenship should be practiced in every course, throughout the school and at home. It is an ongoing partnership between teachers, students, and parents. Just as teachers build awareness of the importance of digital citizenship at school, parents build and reinforce these concepts at home. Students need to approach any use of technology with the digital citizenship components in mind.