



# CHELMSFORD HIGH SCHOOL

## Introduction to Woodworking SYLLABUS 2023-2024

### **COURSE DESCRIPTION**

**10 Credits (#69223), Grade 9 - 12**

This course is designed to give students hands-on learning opportunities to gain basic skills operating tools and machines to implement and construct furniture and or modular projects in the Technology shop. 21st Century manufacturing technology, material processing and measurement system theory concepts will be integrated. Students will evaluate furniture design criteria of the past, present and future. They will learn technical drawing techniques; solve geometric layouts, scale, proportion and perspective drawing. There will be opportunities for students to work and contribute in collaborative groups as well as individual project work. Understanding and adhering to Industrial Safety Standards is a primary requirement for each student. Both the student and parents must sign a safety contract for participation in this course to help ensure a personal commitment to safety procedures. Grades will be based on the safety contract and student conduct as well as class participation, project work, technical drawings and design. Written tests will include vocabulary, machine safety, measurement and industrial concepts in current manufacturing practice.

Prerequisite(s): None

### **REQUIRED TEXTS**

None

### **GOALS and STUDENT LEARNING OUTCOMES:**

By the end of the course, students will be able to...

- Read and understand technical drawings
- Plan, design and correctly construct wooden projects
- Safely use appropriate tools and equipment for woodworking

### **COURSE STANDARDS**

[DESE STANDARDS LINK](#)

### **PERSONS WITH DISABILITIES**

Chelmsford High School is committed to supporting the success and well-being of all students, regardless of varying abilities and levels of adaptive skills. The Special Education office provides services and resources to empower each student to attain their highest level of academic success and learning independence.

### **ACADEMIC INTEGRITY**

At Chelmsford High School, students are expected to maintain high moral and ethical standards, as exemplified by the final sentence of our mission statement: *"A spirit of respect is fostered, as members take responsibility for their actions and acknowledge the rights and differences of others."* (CHS Mission Statement)

Students should respect themselves, other students, staff members and the school. The acts of cheating and plagiarism violate expectations that students will exhibit respectful, ethical behavior.

[The Academic Honor Code](#) exists to address the issues of cheating and plagiarism.

## **GRADING POLICIES**

Please connect with individual teachers for specific information regarding grading. Students will be able to monitor academic progress biweekly through X2/ASPEN.

Students are strongly encouraged to take advantage of the academic support programs and services (such as PRIDE Block, after-school help, etc.) available to them to help ensure and support success. Information about these services can be provided by your teacher, guidance counselor, or administration.

## **COURSE SKILLS**

The following skills are addressed in this course:

Safe use of carpentry tools and equipment

Measuring and carpentry math

Various methods of joinery and finishing

Programming for digital design

## **COURSE OUTLINE**

Unit 1: Safety and Work Environment

Unit 2: Math, Measuring and Drawing

Unit 3: Trees, Lumber and Careers

Unit 4: Hand Tools

Unit 5: Machine Tools

Unit 6: Joinery

Unit 7: Introduction to Digital Design and Fabrication

Unit 8: Finishing

*This syllabus and course outline are subject to change as Chelmsford High School seeks to continually improve the learning experiences for all students.*

***“We foster PRIDE\* in our pursuit of excellence.”***

**PRIDE refers to our five core values – Perseverance, Respect, Integrity, Dedication, and Empathy. These five pillars represent our points of emphasis in supporting the development of quality students and quality citizens.**