

# Wood Technology

**\*Completion of certain courses within Wood Technology may allow students to earn post secondary credits from Northern Michigan University.**

Courses Offered	9	10	11	12
Intro to Woodworking	•	•	•	•
Intro to Manufacturing	•	•	•	•
Intro to Computer Numerical Control	•	•	•	•
Furniture Building		•	•	•
Cabinetmaking			•	•

## Introduction to Woodworking

Grades 9, 10, 11, 12

1 Trimester | .5 credit

This beginner-level course is designed for students with no prior woodworking experience. Emphasis is placed on safety, with each machine and tool thoroughly explained before use. Students will learn the fundamentals of project planning, material selection, measurement, cost estimation, wood joinery, sanding and finishing. Hands-on learning in the lab will lead to completion of one to two entry-level projects during the trimester.

*Lab Fee: Covers project materials. Financial assistance available.*

## Introduction to Manufacturing

Grades 9, 10, 11, 12

2 Trimesters | 1 credit

This two-trimester introductory course teaches students mass production principles through hands-on experience. Rather than building individual projects, the class collaborates to produce a single product in quantity. Each student invests in one personal item to use as a sample for taking orders, then earns a paycheck based on sales and production. The course emphasizes real-world skills in manufacturing, teamwork and production efficiency.

*Lab Fee: Cost of project materials. Financial assistance available.*

## Introduction to CNC

Grades 9, 10, 11, 12

1 Trimesters | .5 credit

This entry-level course introduces students to CNC (Computer Numerical Control) machining and toolpath design, with no prior experience required. Students learn to create digital designs, generate toolpaths using industry-relevant software and operate CNC equipment to produce physical projects. Emphasis is placed on precision, measurement, tooling, and the coordination system-building foundational skills for modern manufacturing.

*Lab Fee: Cost of project materials. Financial assistance available.*

## **Furniture Building**

Grades 10, 11, 12

2 Trimesters | 1 credit

### **Prerequisite: Introduction to Woodworking**

This two-trimester intermediate course is designed for students who want to deepen their woodworking skills beyond the introductory level. Building on concepts from Introduction to Woodworking, students will advance their knowledge of materials, machinery and techniques. The course emphasizes independent project planning, as each student designs and constructs a custom piece of furniture from start to finish.

*Lab Fee: Cost of project materials. Financial assistance available.*

## **Cabinetmaking**

Grades 11, 12

1-3 Trimesters | .5 credit per trimester

### **Prerequisite: Furniture Building**

This advanced woodworking course is designed for students seeking in-depth experience in the craft. Building on prior coursework, students refine their skills in materials, machinery and construction techniques. Working independently, each student designs and builds a complex, custom project.

*Lab fee: Covers project materials. Financial assistance available.*