

Expectations and Outcomes

Grade Level/Course:10-12

Content Area: Tech Ed

Unit Title	Guarantees
Unit 1 - Fractions and conversions	<ul style="list-style-type: none"> • Students will know inch fractions to the 1/16. • Students will simplify, add and subtract fractions.
Unit 2 - Safety	<ul style="list-style-type: none"> • Students will know and apply safe usage of each machine and hand tools in the lab.
Unit 3 - Working Drawings	<ul style="list-style-type: none"> • Students will hand sketch project with dimensions and joint types. • Students will use a CAD program to draft a 3D example of their project. • Student will create a material list. • Students will calculate a cost of project. • Students will create steps of procedure
Unit 4 - Woodworking joints	<ul style="list-style-type: none"> • Students will understand some of the strengths and weaknesses of major joint types.
Unit 5 - Sanding & Routing	<ul style="list-style-type: none"> • Students will know how to sand, smooth, and shape a project to prep for finishing.
Unit 6 - Fasteners and Hardware	<ul style="list-style-type: none"> • Students will learn the types of nails, screws and inserts. • Students will learn about types of hardware available for their projects. • Students will apply the knowledge to select appropriate fasteners and hardware for projects.
Unit 7 - Forestry (Enrichment)	<ul style="list-style-type: none"> • Student may learn about the stages of success. • Student will learn about the forest and soil types in Wisconsin. • Students will learn about the effects of different types of logging on ecosystems.
Unit 8 - Finishing	<ul style="list-style-type: none"> • Students will learn about penetrating finishing vs surface finishes. • Students will learn the correct way to clean brushes after use. • Students will learn the safe way to use and dispose of old chemicals.
Unit 9- CNC Machining	<ul style="list-style-type: none"> • Students will have the opportunity to use the CNC router to add decoration or complexity to their projects.