

DEPARTMENT: TECHNOLOGY EDUCATION	COURSE TITLE: WOODWORKING TECHNOLOGY II COURSE NUMBER: 522B
GRADE(S): 9-12	PRE-REQUISITES (IF ANY): WOODWORKING TECHNOLOGY I

UNIT	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S)
Introduction	3 days	<ul style="list-style-type: none"> Review of Woodworking Technology I . Introduction to the educational possibilities in the wood related industries Wood Tech careers and avocations. 	Students will: <ul style="list-style-type: none"> Develop internet research skills and Wood Tech related research sites 	<ul style="list-style-type: none"> Writing of papers to summarize past experiences in Wood Technology Class participation 	STE-4, 9/10, 1.1
Safety	4 days, plus ongoing reinforcement.	<ul style="list-style-type: none"> Review the evacuation procedures and the location of safety equipment specific to the class room as well as similar public buildings When and how to use personal safety devices How industry deals with safety The Material Safety Data Sheet (MSDS) system Danger areas around and on machines for both operators and non-operators The ARHS Safety Manual. OSHA 	Students will: <ul style="list-style-type: none"> Identify personal safety devices and why they should be worn Follow proper safety rules while working in the lab Describe what a MSDS is used for Pass a test on safety rules and guidelines Demonstrate proper and safe working habits in the lab. 	<ul style="list-style-type: none"> Written quiz or test on safety rules and procedures in the lab, industry and the home workshop Observation of the adherence to the safety guidelines as outlined in the ARHS Safety Manual Written Safety Test 	STE-4, 9/10, 7.2
Project design and products of the wood industry	2 weeks	<ul style="list-style-type: none"> Advanced project Exotic wood species Professionally drawn plans 3 view orthographics The choice of lumber How to square a board CNC machinery The lathe and lathe projects. 	Students will: <ul style="list-style-type: none"> Sketch and drawing Compare samples of lumber Use drafting machines and CAD for drawing designs Develop craftsmanship and skill in drawing and planning Develop safe work habits on the machines introduced 	<ul style="list-style-type: none"> Observation of selected project and design Observation of the proper use of drawing tools Plans Product. 	STE-4, 9/10,2.1 STE-4, 9/10, 1.2, 1.3, 1.4, 1.5 M- 8.M.3, 10.M.10
The design and systems models	3 days	<ul style="list-style-type: none"> The design process and evolution. Systems design and use in industry 	Students will: <ul style="list-style-type: none"> Describe what systems would be involved in the manufacture of their project in industry Use the design evolution to explain the production of their project 	<ul style="list-style-type: none"> Oral presentation of the design and systems evolution 	STE-4, 9/10,7.4

Historical period's furniture design.	3days	<ul style="list-style-type: none"> Historical furniture design periods 	<p>Students will:</p> <ul style="list-style-type: none"> Recognize various samples of furniture design 	<ul style="list-style-type: none"> Quizzes 	STE-4,6.8,2.1,2.2
Structural qualities of wood Project production and finishing	4 days Balance of the term	<ul style="list-style-type: none"> The structural qualities of wood , compression, tension, shear, bending The Universal Testing machine Advanced joints 	<p>Students will:</p> <ul style="list-style-type: none"> Bend and break samples of wood Be able to incorporate advanced joints into their projects Safely use the appropriate machines to produce them 	<ul style="list-style-type: none"> The testing machine. The project Test on the use of formulas and related math. 	M- 8.M.3, 10.M.10 STE-4, 9/10,7.2 STE-4, 6-8, 1.4, 2.1