Conneaut School District

WOOD TECHNOLOGY III

Date	Revised:	July	200
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Course Description:

Course content will be the same as Wood Technology II, since these courses are taught in a combined class. The students at this level will be given more responsibilities and will be expected to perform at a higher level of proficiency. Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. Students will be involved in the entire manufacturing process: research, design, drawing, planning and construction of his/her own individualized projects. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires.

Students will be expected to pay for a portion of his/her total project prior to the beginning of the project. The balance of payment for his/her project will be due upon the completion and removal of the project from school property.

Length of course: (X) Semester –	Intensive Schedule	() Quarter	() Other	
Type of Offering: () Required	() Elective	() Selective		

Credit: One

Prerequisite (s): Completion of Wood Technology II with a minimum of 73% average

Goal: The goals of Wood Technology III are:

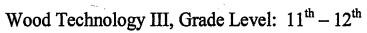
- (1) To help every student acquire knowledge and develop practices necessary to maintain physical and emotional well being.
- (2) To help every student acquire communication skills of understanding, speaking, reading and writing.
- (3) To help every student acquire the knowledge, skills and attitudes necessary to become a self-supporting member of society.
- (4) To help every student acquire skills in mathematics.
- (5) To help every student acquire knowledge, understanding, and appreciation of science and technology.



- (1) To develop in each student a measure of skill in the use of common tools and machines (3.5C)
- (2) To provide general all-around technical knowledge and skills. (3.5C)
- (3) To discover and to develop creative technical talents in students (3.9B)
- (4) To develop problem solving skills relating to materials and processes (3.7B)
- (5) To develop an understanding of our technological culture (3.7C)
- (6) To help students make informed educational and occupational choices (3.9B)
- (7) To develop consumer knowledge and appreciation and use of industrial products (3.9B)
- (8) To provide prevocational experience of an intensified nature for those students interest in technical work (3.7B)
- (9) To develop an understanding of the nature and characteristics of technology (3.9)
- (10) To develop a sense in the order of designing and evaluating quality products (3.7C)
- (11) To identify the needs of a project, design, sketch, plan and build this product to an acceptable standard of quality (3.6A)
- (12) To discover the importance of proper work habits related to the efficient use of materials and time (3.6A)
- (13) To develop an understanding of technological and manufacturing systems and their components (3.8A)
- (14) To become familiar with the various research and development and manufacturing processes (3.5C)
- (15) To become familiar with business and management organization (3.5C)
- (16) To become familiar with the development and use of automated manufacturing processes (3.6A)
- (17) To explore and develop human potential related to the responsible work and citizenship roles in a technological society (3.9B)
- (18) To continue improvement of already acquired skills in the instructional area (3.8A)

Wood Technology III, Grade Level: 11th – 12th

Course Contents By Units: 90 Days (85 min. period)	Learning Strategies including Enrichments/Adaptations	Assessment Measures/Expected Levels of Achievement
Machine Woodworkingsafety and operation		
adjustments and setupsprinciples of operation	- 40 0.	
maintaining tools and equipmentJoinery and Assembly	•	
woodworking jointssimple casework		Instructional Materials
 assembling techniques nails 		
• screws		
• glue • Finishing		
 scraping sanding 		
 preparation for finishing materials 		
 application methods safety 		
Introduction to Management (5 days) • Organization		
elementsforms of ownership		
management levelsResponsibilities		



Course Contents By Units: 90 Days (85 min. period)	Learning Strategies including Enrichments/Adaptations	Assessment Measures/Expected Levels of Achievement	
Manufacturing Systems (5 days)			
 Technological systems 	• Lecture	• Exams: Teacher Made - Standardized	
 Manufacturing system components 	Question / Answer	Project Rating	
Manufacturing Materials (10 days)	Project Construction	Teacher Observation	
 Wood Science 	• Demonstration	Class Participation	
• nature of wood	• Discussion	Rating of Drawings	
 wood movement 	Individually Guided Instruction	Student Activity Self Evaluation	
conservation	Drawing		
Types of Materials	Note Taking	Instructional Materials	
 points to consider when buying wood 	• Discovery – Problem Solving		
• lumber defects	Cooperative Learning	• Text: Wood Technology & Processes,	
 choosing lumber for projects 	Guest Speakers	Glencoe, ©1994	
 descriptions of wood 	Field Trips	Student Activity Manual: Wood	
Manufacturing Processes (25 days)		Technology & Processes, Glencoe,	
 Hard woodworking 		©1994	
 handling, selecting and cutting stock 		Manufacturing Systems, Goodheart-	
 hand tool usage 	· · · · · · · · · · · · · · · · · · ·	Willcox, ©2000	
• gluing up stock		Student Activity Manual:	
 squaring up stock 		Manufacturing Systems, Goodheart-	
• layout		willcox, ©2000	
 forming and smoothing curves 	*	Tools, Machinery and Equipment	
 wood carving 		Visual Demonstrations	
 bending solid wood 	A STATE OF THE STA	Video Tapes	
 wood lamination 	a consistence of the constant	Working Drawings	
 drilling and boring holes 	g contractions	Resource People	
		Transparencies	
		CD-ROM	

Wood Te. logy III, Grade Level: 11th - 12th

Course Contents By Units:	Learning Strategies including	Assessment Measures/Expected	
90 Days (85 min. period)	Enrichments/Adaptations	Levels of Achievement	
Manufacturing Enterprise (35 days)			
Organizing and Financing		·	
Developing a Product			
determining product needs	•		
 designing the product 			
 testing the product 			
Developing a Production System	•		
 selecting and sequencing operations 	: -	To adam add an all Nota dand alla	
flow process chart		Instructional Materials	
 operation process chart 	en e		
plant layout			
• tooling	- 		
 quality assurance 			
Obtaining Resources			
work force			
material resources			
Marketing			
 product advertisement 			
 product packaging 			
selling the product			
 distributing the product 			
Automating Manufacturing Systems (5			
days)			
Automation in manufacturing	*		
Computers and product design	*		
Computers and manufacturing	y company &		
Manufacturing, Technology and You (5		•	
days)			
Future trends			
Career potentials			