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WOOD TECHNOLOGY I

Date	Revised:	July	2000
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Course Description:

Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. Students will be assigned projects with specific size and limitations. 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):

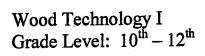
Goal:

The goals of Wood Technology I are:

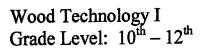
- (1) To help every student acquire knowledge and develop practices necessary to maintain physical and emotional well being.
- (2) To help every student acquire communication skills of understanding, speaking, reading and writing.
- (3) To help every student acquire the knowledge, skills and attitudes 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.

COURSE OBJECTIVES:

- (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 develop an understanding of technological and manufacturing systems and their components (3.8A)
- (13) To become familiar with the various research and development and manufacturing processes (3.5C)
- (14) To become familiar with business and management organization (3.5C)
- (15) To become familiar with the development and use of automated manufacturing processes (3.6A)



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 Manufacturing Materials (10 days) Wood Science nature of wood wood movement conservation Types of Materials points to consider when buying wood lumber defects choosing lumber for projects descriptions of wood Manufacturing Processes (25 days) Hard woodworking handling, selecting and cutting stock hand tool usage gluing up stock squaring up stock squaring up stock layout forming and smoothing curves wood carving bending solid wood wood lamination drilling and boring holes	 Lecture Question / Answer Project Construction Demonstration Discussion Individually Guided Instruction Drawing Note Taking Discovery – Problem Solving Cooperative Learning Guest Speakers Field Trips 	 Exams: Teacher Made – Standardized Project Rating Teacher Observation Class Participation Rating of Drawings Student Activity Self Evaluation Instructional Materials Text: Wood Technology & Processes, Glencoe, ©1994 Student Activity Manual: Wood Technology & Processes, Glencoe, ©1994 Tools, Machinery and Equipment Visual Demonstrations Video Tapes Working Drawings Resource People Transparencies CD-ROM Worksheets Instruction Sheets Models



Course Contents By Units: 90 Days (85 min. period)	Learning Strategies including Enrichments/Adaptations	Assessment Measures/Expected Levels of Achievement
Manufacturing Enterprise (35 days)		
 Organizing and Financing 		
 Developing a product 		
 selecting and sequencing operations 		
 flow process chart 		
 operation process chart 	<u> </u>	
 plant layout 		Instructional Materials
• tooling		Instructional Materials
 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		
Manufacturing, Technology and You (5		·
days) • Future trends		
Career potentials	·.	