

ACALANES UNION HIGH SCHOOL DISTRICT
VOCATIONAL/CAREER EDUCATION
Subject Area

Adopted: 1/14/04

COURSE TITLE: Introductory Wood Technology

COURSE CODE: TO847e

GRADE LEVEL: 9, 10, 11, 12

COURSE LENGTH: One Year

PREREQUISITE: None

CREDIT: 10 units

UC/CSU CREDIT: None

GRADUATION REQUIREMENT: Fulfills 10 units of Career/Technology , Visual and Performing Arts, Foreign Language graduation requirement

STANDARDS AND
BENCHMARKS

Wood Technology: 1a, 1b, 1c, 1d, 1e, 1g, 1h, 1i; 2a, 2b; 3a, 3b, 3c, 3d

COURSE DESCRIPTION

Introductory Wood Technology provides students with the knowledge to safely operate and maintain both hand and power tools as well as woodworking machines. Throughout the year, students will complete several projects while learning the identification and use of tools and woods, and basic joinery and finishing techniques. Emphasis is placed on safety, responsibility, and cooperation.

COURSE GOALS

Student will understand and apply the following principles: 1) planning 2) layout 3) materials 4) assembly 5) finishing processes 6) shop, hand-tool and machine safety in the workshop 7) and craftsmanship and technical skills.

TEXTBOOK MATERIALS

Technical Woodworking; Groneman & Glazanes; McGraw Hill, 1966
Cabinetmaking and Millwork; Feirer; Chas. A. Bennett, 1970
Woodworking for Industry; Feirer; Chas. A. Bennett, 1984

TEACHER RESOURCES

Periodicals: Wood, Fine Woodworking, Popular Woodworking, Woodsmith, American Woodworker, Woodwork; videos, internet, specialty books

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Course Content and Performance Objectives
Introductory Wood Technology

	CAT-6	HSEE	Standards & Benchmarks	Standards-based tests (CST)	Assessment Timeline
1.0 GENERAL INTRODUCTION STUDENT UNDERSTANDS PRINCIPLES OF SHOP, HAND TOOL, AND MACHINE SAFETY IN THE WOODSHOP.	N/A	N/A	3.0	N/A	Ongoing 1 st Qtr (3 days)
1.1 Understands and follows Shop Skills/Classroom rules			3A		Selected Response
1.2 Understands and follows General Safety Rules			3A		Selected Response
1.3 Understands and heeds Behavior Policies			3A		Personal Comm.
1.4 Understands and follows Emergency Procedures (Fire, Earthquake)			3A		Performance/Product (5%)
2.0 INTRODUCTION TO WOODWORKING STUDENT UNDERSTANDS AND APPLIES THE PRINCIPLES OF PLANNING, LAYOUT, MATERIALS, ASSEMBLY, AND FINISHING PROCESSES USED IN WOOD TECHNOLOGY.	N/A	N/A	1.0, 3.0	N/A	
2.1 Understands and uses correct measuring practices using the standard foot/inch system, including fractions.			1A,1D,1G		Selected Response Constructed Response Performance/Product Selected Response Performance/Product (10%)
2.2 Understands, safely and properly uses, and maintains Hand Tools including:			1A,1B,1H,3C,		1 st Qtr (14 days)
a. Layout tools					
b. Edged tools					
c. Hand saws					

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		CAT-6	HSEE	Standards & Benchmarks	Standards-based tests (CST)	Assessment Timeline
	<ul style="list-style-type: none"> d. Drilling and boring tools e. Miscellaneous hand tools f. Files and rasps g. Abrasives h. Clamps and Vises i. <i>Japanese hand tools</i> j. Sharpening 					
2.3	Understands and appropriately uses Wood and its Terminology, including: <ul style="list-style-type: none"> a. Structure and physical make-up of wood b. Solid stock c. Sheet goods d. Species of woods 			1B		Selected Response Performance/Product (1%) Ongoing (2 days)
2.4	Understands and is able to calculate board-feet and the cost of various forms of lumber including: <ul style="list-style-type: none"> a. Solid stock b. Sheet goods 			1D		Selected Response Performance/Product (1%) Ongoing (1 day)
2.5	Understands and uses appropriate Joints and Joinery, including: <ul style="list-style-type: none"> a. Types of joints b. Fasteners c. Glues 			1B,1E		Selected Response Performance/Product (1%) Ongoing (2 days)
2.6	Understands and uses appropriate Finishes and Coatings, including: <ul style="list-style-type: none"> a. Clear finishes b. Stains c. Paints 			1C; 3D		Selected Response Performance/Product (2%) Ongoing (1 day)

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3.0 CRAFTSMANSHIP STUDENT APPLIES ARTISTIC KNOWLEDGE AND SKILLS IN A VARIETY OF VISUAL ARTS MEDIA AND TECHNICAL PROCESSES TO COMMUNICATE MEANING AND INTENT THROUGH THE CREATION OF ORIGINAL ART WORKS.	N/A	N/A	2.0	N/A		Ongoing
3.1 Understands and applies Four Point Performance Rubric on craftsmanship.			2.B		Performance /Product	2 nd Qtr (12 days)
4.0 PROJECT NUMBER ONE.	N/A	N/A	1.0, 3.0	N/A		
4.1 Demonstrates ability to use hand tools in constructing a project, such as a Shaker peg rack .			1A,1B,1C,1D, 1E,1I,3A,3C, 3D		Performance /Product (5%)	
5.0 MACHINES AND POWER TOOLS	N/A	N/A	1.0, 3.0	N/A		Ongoing (14 days)
5.1 Understands and safely and properly uses Machines and Power Hand Tools including (but not necessarily all): <ul style="list-style-type: none"> a. Scroll saw b. Band saw c. Radial arm saw d. Table saw e. Chop (power miter) saw f. Jointer g. Planer h. Drill press 			1 B,3A,3B		Selected Response Performance /Product (10%)	

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	CAT-6	HSEE	Standards & Benchmarks	Standards-based tests (CST)	Assessment Timeline
i. Dowel machine j. Vertical belt sander k. Disc sander l. Spindle sander m. Drum sander n. Lathe o. Jig (or Saber) saw p. Hand drill (corded and cordless) q. Belt sander r. Random orbit sander s. Palm sander t. Plate joiner u. Router (and Router Table)					
6.0 PROJECT NUMBER TWO. CUTTING BOARD. 6.1 Demonstrates the ability to use power tools and machinery in constructing a project, such as a cutting board, with variations allowing for aesthetic choices.	N/A	N/A	1.0, 2.0, 3.0 1A,1B,1C, 1D,1E,1G, 1I,2B,3A,3B, 3C,3D	N/A	Performance /Product (5%) 3 rd Qtr Ongoing (10 days)
7.0 SELECTED PROJECTS 7.1 Constructs a project or projects from a variety of selections, or constructs a project or projects of his own design.	N/A	N/A	1.0, 2.0, 3.0 1A,1B,1C, 1D,1E,1G, 1I,2A,2B,3A, 3B,3C,3D	N/A	Performance /Product (60%) 3 rd , 4 th , Qtr Ongoing (119 days)

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TEACHING STRATEGIES AND PROCEDURES

Lectures	Demonstrations
Videos	Guest Lecturers/Demonstrations
Peer Tutoring	

GRADING GUIDELINES

Projects graded according to a 4 point performance rubric encompassing 8 categories of craftsmanship.

Tests/Quizzes:	30%
Projects:	60%
Participation/Class work:	10%