San Diego County Office of Education - Sweetwater Union High School District Pacing Guide/Course Description

Classroom Instruction: 180 hours
Grade Level: 9, 10, 11, 12
SDCOE Total Hours: 990 hours
Year of Implementation: 2012
Articulation (school/credits): None
CTE Pathway(s): Cabinetmaking and Wood Products

Job Titles: Cabinetmaker, Furniture Maker, Furniture Design, Mill Worker, Architect, Job Estimator, Finish Carpenter

Credential Information: Preliminary or Clear Full-Time Designated Subjects CTE Teaching Credential in Building Trades and Construction

Required Textbooks: Textbooks - Woodworking, Nancy MacDonald, Del Mar Publishing, ISBN 978-1-4018-6280-0

Course Description: Cabinetmaking 1/2 provides entry-level training in cabinetmaking. Instruction includes safety, simple machine operation, layout, assembly and construction of furniture and cabinetry. Students receive instruction in basic woodworking techniques and use standard woodworking equipment, including both hand and power tools. Cabinetmaking II provides advanced-level training in cabinetmaking. Instruction includes safety, machine operation, layout, assembly and construction of furniture and cabinetry. Students receive advanced instruction in woodworking techniques and use standard woodworking equipment, including both hand and power tools. Students may participate in on-the-job training as a part of this course. Students must meet required course standards and obtain permission of the instructor prior to an on-the-job training assignment. Students must conform to dress codes and other standards required by the training site management.

Semester 1

Unit 1: Equipment Safety

Unit 2: Hand Tools

Unit 3: Wood Joinery

Unit 4: Hand Power Tools

Unit 5: Project Design

Unit 6: Wood and Wood Products

Unit 7: Finishing

Unit 8: Career Skills

Semester 2

Unit 1: Equipment Safety

Unit 2: Hand Tools

Unit 3: Wood Joinery

Unit 4: Hand Power Tools

Unit 5: Project Design

Unit 6: Cabinet Assembly

Unit 7: Cabinet Construction

Unit 8: Career Skills

	Semester 1 - Unit 1 - Equipment Safety (20 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials	
1A - The student demonstrates proper and safe use of Planer 1B - The student demonstrates proper and safe use of Joiner 1C - The student demonstrates proper and safe use of Circular and Rip Saw 1D - The student demonstrates proper and safe use of Radial Arm Saw 1E - The student demonstrates proper and safe use of Abrasive Sander 1F - The student demonstrates proper and safe use of Band Saw 1G - The student demonstrates proper and safe use of Belt Sander 1H - The student demonstrates proper and safe use of Spindle Sander 1I - The student demonstrates proper and safe use of Spindle Sander 1I - The student demonstrates proper and safe use of Drill Press 1K - The student demonstrates proper and safe use of Power Miter Saw 1L - The student demonstrates proper and safe use of Tub Drill 1M - The student	*BTC/CWP/ A4.1 Understand the proper and safe use of stationary power tools used in the milling process, such as shapers, sanders, joiners, table saws, and band saws A6.1 Know the safety rules in the cabinetmaking work environment. A6.2 Use hand tools (wood chisels, drills, coping saws) and power tools (routers, sanders, planers) safely in the cabinet working environment. Core Academic:	A - 5 hours: What equipment is available B - 13 hours: Safe use of all shop equipment C - 2 hours: Safety Exam (each student shall pass a district approved safety exam. Instructor will keep on file a completed exam for each student)	Teacher Resources: Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts: Planer Joiner Circular & Rip Saw Radial Arm Saw Abrasive Sander Band Saw Belt Sander Spindle Sander Boring machine Drill Press Power Miter Saw Tub Drill Air Tools Face Frame Assembly Table Door Machine Edge Bander 32 mm Multi Boring Drill Sliding Table Saw Shaper Panel Saw Panel Router Lathe CNC Router CNC Boring Machine Power Feed Rip Saw	

demonstrates proper and		
safe use of Air Tools		
1N - The student		
demonstrates proper and		
safe use of Face Frame		
Assembly Table		
10 - The student		
demonstrates proper and		
safe use of Door Machine		
1P - The student		
demonstrates proper and		
safe use of Edge Bander		
1Q - The student		
demonstrates proper and		
safe use of Multi Boring 32		
mm Drill		
1R - The student		
demonstrates proper and		
safe use of Sliding Table Saw		
1S - The student		
demonstrates proper and		
safe use of Shaper		
1T - The student		
demonstrates proper and		
safe use of Panel Saw		
1U - The student		
demonstrates proper and		
safe use of Panel Router		
1V - The student		
demonstrates proper and		
safe use of Lathe		
1W - The student		
demonstrates proper and		
safe use of CNC Router		
1X - CNC point to Point		
Boring Machine		
1Y - The student		
demonstrates proper and		
safe use of Power Feed		
1Z - The student		
demonstrates proper and		
safe use of Rip Saw		

Semester 1 - Unit 2 - Hand Tools (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
3A - The student has basic working knowledge of the following tools tape measure 3B - The student has basic working knowledge of the following tools bench measure 3C - The student has basic working knowledge of the following tools tri Square 3D - The student has basic working knowledge of the following tools framing Square 3E - The student has basic working knowledge of the following tools trammel points 3F - The student has basic working knowledge of the following tools rip Saw 3G - The student has basic working knowledge of the following tools crosscut Saw 3H - The student has basic working knowledge of the following tools back Saw 3I - The student has basic working knowledge of the following tools dowel centers 3J - The student has basic working knowledge of the following tools files 3K - The student has basic working knowledge of the following tools hand Scraper 3L - The student has basic working knowledge of the following tools burnishing knowledge of the following tools burnishing	*BTC/CWP/ A2.1 Use common hand tools and accessories, such as planers, shapers, clamping and gripping tools, pliers, wrenches, wood chisels, hammers, hand saws, and squares, safely and properly. A2.2 Maintain and care for common hand tools. A6.1 Know the safety rules in the cabinetmaking work environment. A6.2 Use hand tools (wood chisels, drills, coping saws) and power tools (routers, sanders, planers) safely in the cabinet working environment. *T/VMSRP/ C2.4 Know and understand the elements of precision measuring using standard and metric systems. Core Academic:	A - 5 hours: Identification B - 7 hours: Use and care of hand tools C - 1 hour: Grinding and honing of hand tools D - 2 hours: Personal and workplace safety	Teacher Resources: Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts

Tools		
3M - The student has basic		
working knowledge of the		
following tools hand Plane		
3N - The student has basic		
working knowledge of the		
following tools bench dog		
30 - The student has basic		
working knowledge of the		
following tools brace and Bit		
3P - The student has basic		
working knowledge of the		
following tools screwdrivers		
3Q - The student has basic		
working knowledge of the		
following tools compass		
3R - The student has basic		
working knowledge of the		
following tools Self-Centering		
Doweling Jig		
3S - The student has basic		
working knowledge of the		
following tools chisels		
3T - The student has basic		
working knowledge of the		
following tools hammer and		
Mallets		
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Competencies	Standards	Suggested Pacing	Resources/Materials
13A - The student demonstrates the ability to construct Dados 13B - The student demonstrates the ability to construct Rabbets 13C - The student demonstrates the ability to construct Grooves 13D - The student demonstrates the ability to construct Mortise and Tenons 13E - The student demonstrates the ability to construct Cross Laps 13F - The student demonstrates the ability to construct Half Laps 13G - The student demonstrates the ability to construct Dovetails 13H - The student demonstrates the ability to construct Finger Joints 13I - The student demonstrates the ability to construct Biscuit Joints 13J - The student demonstrates the ability to construct Biscuit Joints 13J - The student demonstrates the ability to construct Butt Joints 13K - The student demonstrates the ability to construct Miters 13L - The student demonstrates the ability to construct Miters 13L - The student demonstrates the ability to construct Miters	Career Technical Education: *BTC/CWP/ A7.1 Design and create cabinet and wood products. Core Academic: *BTC/A/1.1M/NS/G7/ (1.2) Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	A - 3 hours: Identification of various wood joints B - 2 hours: Various construction methods using machines, jigs and fixtures C - 4 hours: Skill development D - 1 hours: Personal and workplace safety	Teacher Resources: Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts

Semester 1 - Unit 4 - Hand Power Tools (9 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
10A - The student demonstrates the ability to safely use Router 10B - The student demonstrates the ability to safely use Belt Sander 10C - The student demonstrates the ability to safely use Hand Drill 1/4", 3/8", and 1/2" 10D - The student demonstrates the ability to safely use Finish Sander 10E - The student demonstrates the ability to safely use Power Hand Plane 10F - The student demonstrates the ability to safely use Portable Circular Saw 10G - The student demonstrates the ability to safely use Screw Gun 10H - The student demonstrates the ability to safely use Nail Guns 10I - The student demonstrates the ability to safely use Air Tools 10J - The student demonstrates the ability to safely use Biscuit Jointer 10K - The student demonstrates the ability to safely use Biscuit Jointer 10K - The student demonstrates the ability to safely use Jig Saw	*BTC/CWP/ A3.1 Use portable power tools, such as single and compound miter saws, drills, sanders, saber saws, and routers, safely and appropriately. Core Academic:	A - 1 hour: Router B - 1 hour: Belt Sander C - 1 hour: Hand Drill 1/4", 3/8", and 1/2" D- 1 hour: Finish Sander G - 1 hour: Screw Gun H - 1 hour: Nail Gun J - 2 hours: - Biscuit Joiner K - 1 hour: Jig Saw	Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts

Competencies	Standards	Suggested Pacing	Resources/Materials
2A - The student Plans,	Career Technical Education:	12A - 1 hour	Teacher Resources:
/aluates, organizes and	*BTC/CWP/		Textbook – "Woodworking"
ommunicates the	A1.1 Know design solutions to common	12B - 1 hour	by Nancy MacDonald
formation effectively with	problems in cabinetmaking and wood		
gard to design.	products.	12C - 1 hour	Student Resources:
2B - The student Allocates	A7.1 Design and create cabinet and wood		Textbook – "Woodworking"
ne, money, material.	products.	12D - 10 hours	by Nancy MacDonald
2C - The student Selects	Core Academic:		Handouts
orrect materials.	*BTC/A/1.1M/NS/G7/	12E - 1 hour	
2D - The student Develops	(1.2) Add, subtract, multiply, and divide		
now drawings and cut lists.	rational numbers (integers, fractions, and	12F - 1 hour	
2E - The student Develops	terminating decimals) and take positive		
nd uses a story pole.	rational numbers to whole-number powers.		
2F - The student	*BTC/A/1.4VAPA/VA/PR/G9-2/		
nderstands Layout.	(1.4) Analyze and describe how the		
	composition of a work of art is affected by the		
	use of a particular principle of design.		
	(1.5) Analyze the material used by a given		
	artist and describe how its use influences the		
	meaning of the work.		
	*BTC/A/1.4VAPA/VA/ADV/G9-12/		
	(2.1) Create original works of art of increasing		
	complexity and skill in a variety of media that		
	reflect their feelings and points of view.		
	(2.2) Plan and create works of art that reflect		
	complex ideas, such as distortion, color		
	theory, arbitrary color, scale, expressive		
	content, and real versus virtual.		
	*BTC/C/2.3WO/ELC/G9-10/		
	(1.4) Produce legible work that shows		
	accurate spelling and correct use of the		
	conventions of punctuation and capitalization.		

	Semester 1 - Unit 6 - Wood and Wood Products (6 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials	
2A - The student identifies	Career Technical Education:	A - 1 hour: Lumber Milling	Teacher Resources:	
the following woods Alder	*BTC/CWP/	D. 4 hours Hord vo. Coft wood	Textbook – "Woodworking"	
2B - The student identifies the following woods Ash	A1.1 Know design solutions to common problems in cabinetmaking and wood	B - 1 hour: Hard vs. Soft wood	by Nancy MacDonald	
2C - The student identifies	products.	C - 1 hour: Types and use of	Student Resources:	
the following woods Backer	*ANR/AMP/	plywood	Textbook – "Woodworking"	
Board	B2.1 Know how to identify common wood	p.y.roou	by Nancy MacDonald	
2D - The student identifies	products, lumber types, and sizes.	D - 1 hour: Cores of Plywood	Handouts	
the following woods	B2.2 Know how to calculate board feet,	,		
Basswood	lumber volume, and square feet.	E - 1 hour: Lumber yard use		
2E - The student identifies the	Core Academic:	of board		
following woods Birch	*BTC/C/2.2W/WS/G8/	foot measure		
2F - The student identifies	(1.4) Plan and conduct multiple-step			
the following woods Cedar	information searches by using computer	F - 1 hour: Safe handling of		
2G - The student identifies	networks and modems.	lumber and materials		
the following woods Cherry	*BTC/C/2.2W/WS/G9-10/			
2H - The student identifies	(1.3) Use clear research questions and			
the following woods Classic	suitable research methods (e.g., library,			
Core	electronic media, personal interview) to elicit			
2I - The student identifies the	and present evidence from primary and			
following woods Laminate 2J - The student identifies the	secondary sources.			
following woods Lumber Core				
Plywood				
2K - The student identifies				
the following woods				
Mahogany				
2L - The student identifies the				
following woods Maple				
2M - The student identifies				
the following woods MDF				
2N - The student identifies				
the following woods				
Melamine Covered Particle				
Board				
20 - The student identifies				
the following woods Oak				
2P - The student identifies the				

following woods Particle Board 2Q - The student identifies the following woods Pine 2R - The student identifies the following woods Poplar 2S - The student identifies the following woods Veneer Core 2T - The student identifies the following woods Walnut			
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	Semester 1 - Unit 7 - Finishing (10 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials	
18A - The student Uses garnet, aluminum oxide and silicon oxide coated abrasives for surface preparation. 18B - The student Identifies matches and applies stains, dyes and finishing. 18C - The student Understands and uses sealers and solvents. 18D - The student Applies and mixes oil-rubbed finishes. 18E - The student Understands and uses lacquers, varnishes, urethanes, and acrylics. 18F - The student Sets up and applies finishes with compressor spray system. 18G - The student Sets up and applies finishes with HVLP.	*BTC/CWP/ A6.3 Understand how to handle and dispose of toxic materials safely and use protective clothing as needed when using lacquers, acetone, thinners, staining materials, and so forth in an environmentally responsible manner. A7.5 Use finish tools (e.g., airless sprayers, palm sanders) and techniques for finishing cabinets and wood products. Core Academic:	A - 2 hours: Surface preparation B - 3 hours: Identification of materials C - 3 hours: Application procedures D - 2 hours: Personal and workplace safety	Teacher Resources: Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts	

	<u>Jeniester i</u> - Unit 0 – Career	Skills (5 flours)	Semester 1 - Unit 8 - Career Skills (5 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials			
7A - Accesses and utilizes	Career Technical Education:	17A17B – Ongoing: Job	Teacher Resources:			
echnology and information.	*BTC/CPM/	Acquisition Skills	Job Finders Guide			
7B - Practices occupational	3.1 Know the personal qualifications,					
safety standards.	interests, aptitudes, knowledge, and skills	17C-17D-17E-17E-17F-17G -	Student Resources:			
7C - Thinks critically and	necessary to succeed in careers.	Ongoing:	Job Finders Guide			
solving problems effectively.	3.4 Understand the role and function of	Problem solving/critical				
7D - Uses basic skills in	professional organizations, industry	thinking skills and behavior	Pocket Job Finders Guides			
eading, writing, mathematics,	associations, and organized labor in a	l				
stening and speaking as	productive society.	17H – Ongoing:				
hey relate to occupation	3.6 Know important strategies for self-	Verbal and non-verbal skills				
specific skills.	promotion in the hiring process, such as job					
7E - Attains a	applications, résumé writing, interviewing					
comprehensive	skills, and preparation of a portfolio.	17J – Ongoing:				
inderstanding of all aspects	Core Academic:	Cultural sensitivity				
of industry the individual is	*BTC/C/2.2W/WSA/G11-12/					
preparing to enter.	(2.5) Write job applications and résumés:	17K-17L-17M-17N-170-17P-				
7F - Applies knowledge to	a. Provide clear and purposeful information	17Q – Ongoing:				
eal world problems and	and address the intended audience	Team building				
situations.	appropriately.	Tourn bunding				
7G - Works independently	b . Use varied levels, patterns, and types of	17R – 4 hours:				
and collaboratively.	language to achieve intended effects and aid	Resume and Application				
7H - Communicates	comprehension.	Treedine and Application				
effectively and appropriately.	c . Modify the tone to fit the purpose and	17S - Ongoing:				
71 - Performs reliably and	audience.	Job interview				
esponsibly.	d . Follow the conventional style for that type					
7J - Works with diverse	of document (e.g., résumé, memorandum)	17T – 30 minutes:				
oppulations effectively and	and use page formats, fonts, and spacing that	Lifelong learning				
espectfully.	contribute to the readability and impact of the	17U – 30 minutes:				
7K - Is punctual.	document.	OUTSTANDING STUDENT				
7L - Follows directions.	*BTC/C/2.2W/WS/G9-10/	AWARD				
7M - Works well with	(1.3) Use clear research questions and	AWARD				
ninimum supervision.	suitable research methods (e.g., library,					
17N - Is cooperative.	electronic media, personal interview) to elicit					
70 - Takes initiative by	and present evidence from primary and					
vorking beyond minimum	secondary sources.					
equirements.	Secondary Sources.					
equirements. I 7P - Meets job standards of						
neatness and grooming.						

17Q - Responds		
appropriately to constructive	1	
criticism.	1	
17R - Completes an	!	
appropriate resume and job	!	
application.	1	
17S - Acquires job interview	!	
techniques.	!	
17T - Attains awareness of	1	
advanced career and	1	
educational opportunities.	1	
17U - Received the ROP	!	
Outstanding Student Award.	!	
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	1	
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	!	

Semester 2- Unit 1 – Equipment Safety (5 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
1A - The student demonstrates proper and safe use of Planer 1B - The student demonstrates proper and safe use of Joiner 1C - The student demonstrates proper and safe use of Circular and Rip Saw 1D - The student demonstrates proper and safe use of Radial Arm Saw 1E - The student demonstrates proper and safe use of Abrasive Sander 1F - The student demonstrates proper and safe use of Band Saw 1G - The student demonstrates proper and safe use of Belt Sander 1H - The student demonstrates proper and safe use of Spindle Sander 1I - The student demonstrates proper and safe use of Drill Press 1K - The student demonstrates proper and safe use of Drill Press 1K - The student demonstrates proper and safe use of Chop Saw 1L - The student demonstrates proper and safe use of Tub Drill 1M - The student	*BTC/CWP/ A4.1 Understand the proper and safe use of stationary power tools used in the milling process, such as shapers, sanders, joiners, table saws, and band saws A6.1 Know the safety rules in the cabinetmaking work environment. A6.2 Use hand tools (wood chisels, drills, coping saws) and power tools (routers, sanders, planers) safely in the cabinet working environment. Core Academic:	A - 1 hour: What equipment is available B - 3 hours: Safe use of all shop equipment C - 1 hour: Safety Exam (each student shall pass a district approved safety exam. Instructor will keep on file a completed exam for each student)	Teacher Resources: Textbook – "Woodworking" by Nancy MacDonald " Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts: Planer Joiner Circular & Rip Saw Radial Arm Saw Abrasive Sander Band Saw Belt Sander Spindle Sander Boring machine Drill Press Chop Saw Tub Drill Air Tools Face Frame Assembly Table Door Machine Edge Bander 32 mm Multi Boring Drill Sliding Table Saw Shaper Panel Saw Panel Router Lathe CNC Router CNC Boring Machine Power Feed Rip Saw

demonstrates proper and		
safe use of Air Tools		
1N - The student		
demonstrates proper and		
safe use of Face Frame		
Assembly Table		
10 - The student		
demonstrates proper and		
safe use of Door Machine		
1P - The student		
demonstrates proper and		
safe use of Edge Bander		
1Q - The student		
demonstrates proper and		
safe use of Multi Boring 32		
mm Drill		
1R - The student		
demonstrates proper and		
safe use of Sliding Table Saw		
1S - The student		
demonstrates proper and		
safe use of Shaper		
1T - The student		
demonstrates proper and		
safe use of Panel Saw		
1U - The student		
demonstrates proper and		
safe use of Panel Router		
1V - The student		
demonstrates proper and		
safe use of Lathe		
1W - The student		
demonstrates proper and		
safe use of CNC Router		
1X - CNC point to Point		
Boring Machine		
1Y - The student		
demonstrates proper and		
safe use of Power Feed		
1Z - The student		
demonstrates proper and		
safe use of Rip Saw		

Semester 2 - Unit 2 - Hand Tools (10 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
3A - The student has basic working knowledge of the following tools tape measure 3B - The student has basic working knowledge of the following tools bench measure 3C - The student has basic working knowledge of the following tools tri Square 3D - The student has basic working knowledge of the following tools framing Square 3E - The student has basic working knowledge of the following tools trammel points 3F - The student has basic working knowledge of the following tools rip Saw 3G - The student has basic working knowledge of the following tools crosscut Saw 3H - The student has basic working knowledge of the following tools back Saw 3I - The student has basic working knowledge of the following tools dowel centers 3J - The student has basic working knowledge of the following tools files 3K - The student has basic working knowledge of the following tools hand Scraper 3L - The student has basic working knowledge of the following tools hand Scraper 3L - The student has basic working knowledge of the	*BTC/CWP/ A2.1 Use common hand tools and accessories, such as planers, shapers, clamping and gripping tools, pliers, wrenches, wood chisels, hammers, hand saws, and squares, safely and properly. A2.2 Maintain and care for common hand tools. A6.1 Know the safety rules in the cabinetmaking work environment. A6.2 Use hand tools (wood chisels, drills, coping saws) and power tools (routers, sanders, planers) safely in the cabinet working environment. Core Academic:	A - 5 hours: Identification B - 7 hours: Use and care of hand tools C - 1 hour: Grinding and honing of hand tools D - 2 Hours: Personal and workplace safety	Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts

following tools burnishing		
Tools		
3M - The student has basic		
working knowledge of the		
following tools hand Plane		
3N - The student has basic		
working knowledge of the		
following tools bench dog		
30 - The student has basic		
working knowledge of the		
following tools brace and Bit		
3P - The student has basic		
working knowledge of the		
following tools screwdrivers		
3Q - The student has basic		
working knowledge of the		
following tools compass		
3R - The student has basic		
working knowledge of the		
following tools Self-Centering		
Doweling Jig		
3S - The student has basic		
working knowledge of the		
following tools chisels		
3T - The student has basic		
working knowledge of the		
following tools hammer and		
Mallets		

Competencies	Standards	Suggested Pacing	Resources/Materials
13A - The student demonstrates the ability to construct Dados 13B - The student demonstrates the ability to construct Rabbets 13C - The student demonstrates the ability to construct Grooves 13D - The student demonstrates the ability to construct Mortise and Tenons 13E - The student demonstrates the ability to construct Cross Laps 13F - The student demonstrates the ability to construct Half Laps 13G - The student demonstrates the ability to construct Dovetails 13H - The student demonstrates the ability to construct Finger Joints 13I - The student demonstrates the ability to construct Finger Joints 13J - The student demonstrates the ability to construct Biscuit Joints 13J - The student demonstrates the ability to construct Butt Joints 13K - The student demonstrates the ability to construct Miters 13L - The student demonstrates the ability to construct Miters 13L - The student demonstrates the ability to construct Miters	Career Technical Education: *BTC/CWP/ A7.1 Design and create cabinet and wood products. Core Academic: *BTC/A/1.1M/NS/G7/ (1.2) Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	A - 1 hour: Identification of various wood joints B - 1 hour: Various construction methods using machines, jigs and fixtures C - 7 hour: Skill development D - 1 hour: Personal and workplace safety	Teacher Resources: Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts

Semester 2 - Unit 4 – Power Tools (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
demonstrates the ability to safely use Router 10B - The student demonstrates the ability to safely use Belt Sander 10C - The student demonstrates the ability to safely use Hand Drill 1/4", 3/8", and 1/2" 10D - The student demonstrates the ability to safely use Finish Sander 10E - The student demonstrates the ability to safely use Power Hand Plane 10F - The student demonstrates the ability to safely use Portable Circular Saw 10G - The student demonstrates the ability to safely use Screw Gun 10H - The student demonstrates the ability to safely use Nail Guns 10I - The student demonstrates the ability to safely use Air Tools 10J - The student demonstrates the ability to safely use Biscuit Jointer 10K - The student demonstrates the ability to safely use Biscuit Jointer 10K - The student demonstrates the ability to safely use Jig Saw	Career Technical Education: *BTC/CWP/ A3.1 Use portable power tools, such as single and compound miter saws, drills, sanders, saber saws, and routers, safely and appropriately. Core Academic:	A - 1 hour: Router B - 1 hour: Belt Sander C - 1 hour: Hand Drill 1/4", 3/8", and 1/2" D- 1 hour: Finish Sander G - 1 hour: Screw Gun H - 1 hour: Nail Gun J - 2 hours: - Biscuit Joiner K - 1 hour: Jig Saw	Textbook – "Woodworking" by Nancy MacDonald Student Resources: Textbook – "Woodworking" by Nancy MacDonald Handouts

	Semester 2 - Unit 5 - Project Design (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials	
12A - The student Plans,	Career Technical Education:	12A - 1 hour	Teacher Resources:	
evaluates, organizes and	*BTC/CWP/		Textbook – "Woodworking"	
communicates the nformation effectively with	A1.1 Know design solutions to common problems in cabinetmaking and wood	12B - 1hour	by Nancy MacDonald	
regard to design.	products.	12C - 1 hour	Student Resources:	
2B - The student Allocates	A5.1 Know how to read, understand, design,		Textbook – "Woodworking"	
ime, money, material.	and construct cabinets accurately from	12D - 10 hours	by Nancy MacDonald	
2C - The student Selects	cabinetmaking fabrication and installation		Handouts	
correct materials.	plans and specifications.	12E - 1 hour		
12D - The student Develops	A5.2 Understand how to estimate a bill of			
show drawings and cut lists.	materials from drawings and specifications for	12F - 1 hour		
2E - The student Develops	constructing cabinets.	1 110 111		
and uses a story pole.	Core Academic:			
2F - The student	*BTC/A/1.1M/NS/G7/			
Inderstands Layout.	(1.2) Add, subtract, multiply, and divide			
zao.e.aao <u>-</u> ayea	rational numbers (integers, fractions, and			
	terminating decimals) and take positive			
	rational numbers to whole-number powers.			
	*BTC/A/1.1M/A1/G8-12/			
	(15.0)Students apply algebraic techniques to			
	solve rate problems, work problems, and			
	percent mixture problems.			
	*BTC/A/1.4VAPA/VA/PR/G9-2/			
	(1.4) Analyze and describe how the			
	composition of a work of art is affected by the			
	use of a particular principle of design.			
	(1.5) Analyze the material used by a given			
	artist and describe how its use influences the			
	meaning of the work.			
	(2.6) Create a two- or three-dimensional work			
	of art that addresses a social issue.			
	*BTC/A/1.4VAPA/VA/ADV/G9-12/			
	(2.1) Create original works of art of increasing			
	complexity and skill in a variety of media that			
	reflect their feelings and points of view.			
	(2.2) Plan and create works of art that reflect			
	complex ideas, such as distortion, color			

	Suggested Pacing	Resources/Materials
Career Technical Education:	14A - 4 hours	Teacher Resources:
A4.2 Understand the proper and safe use of	14B - 2 hours	Textbook – "Woodworking" by Nancy MacDonald
process, such as pneumatic table clamps,	14C - 2 hours	Student Resources: Textbook – "Woodworking"
hardware fasteners.	14D - 2 hours	by Nancy MacDonald Handouts
in the assembly of cabinet and wood product	14E - 2 hours	Hariadata
Core Academic: *BTC/A/1.1M/NS/G7/ (1.2) Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers. *BTC/A/1.1M/A1/G8-12/ (15.0)Students apply algebraic techniques to solve rate problems, work problems, and percent mixture problems.	14F - 3 hours	
	*BTC/CWP/ A4.2 Understand the proper and safe use of stationary power tools used in the assembly process, such as pneumatic table clamps, case clamps, case frame fasteners, and hardware fasteners. A7.4 Use stationary and portable power tools in the assembly of cabinet and wood product components. Core Academic: *BTC/A/1.1M/NS/G7/ (1.2) Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers. *BTC/A/1.1M/A1/G8-12/ (15.0)Students apply algebraic techniques to solve rate problems, work problems, and	*BTC/CWP/ A4.2 Understand the proper and safe use of stationary power tools used in the assembly process, such as pneumatic table clamps, case clamps, case frame fasteners, and hardware fasteners. A7.4 Use stationary and portable power tools in the assembly of cabinet and wood product components. Core Academic: *BTC/A/1.1M/NS/G7/ (1.2) Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers. *BTC/A/1.1M/A1/G8-12/ (15.0)Students apply algebraic techniques to solve rate problems, work problems, and

Competencies	Standards	Suggested Pacing	Resources/Materials
15A - The student	Career Technical Education:	A - 3 hours: Case	Teacher Resources:
demonstrates the ability to	*BTC/CWP/	construction	Textbook – "Woodworking"
construct or install Face	A4.2 Understand the proper and safe use of		by Nancy MacDonald
-rames	stationary power tools used in the assembly	B - 2 hours: Face frame	
5B - The student	process, such as pneumatic table clamps,	construction	Student Resources:
demonstrates the ability to	case clamps, case frame fasteners, and		Textbook – "Woodworking"
construct or install Face	hardware fasteners.	C - 3 hours: Cabinet door and	by Nancy MacDonald
rames with Screws	A7.3 Use stationary and portable power tools	drawer construction	Handouts
I5C - The student	in milling the components for cabinets and		
demonstrates the ability to	wood products.	D - 1 hour: Toe kick	
construct or install Drawers	Core Academic:	assemblies	
I 5D - The student	*BTC/A/1.1M/NS/G7/		
demonstrates the ability to	(1.2) Add, subtract, multiply, and divide	E - 1 hour: D Fasteners	
construct or install Doors	rational numbers (integers, fractions, and		
I5E - The student	terminating decimals) and take positive	F - 4 hours: Installation	
demonstrates the ability to	rational numbers to whole-number powers.		
construct or install Toe Kicks	*BTC/A/1.1M/A1/G8-12/	G - 1 hour: Personal and	
I 5F - The student	(15.0)Students apply algebraic techniques to	workplace safety	
demonstrates the ability to	solve rate problems, work problems, and		
construct or install Hardware	percent mixture problems.		
and Fasteners	(8.0) Students know, derive, and solve		
I 5G - The student	problems involving the perimeter,		
demonstrates the ability to	circumference, area, volume, lateral area, and		
construct or install Cabinets	surface area of common geometric figures.		
I 5H - The student	(11.0) Students determine how changes in		
demonstrates the ability to	dimensions affect the perimeter, area, and		
construct or install Trim and	volume of common geometric figures and		
Molding	solids.		
I 5I - The student	(12.0) Students find and use measures of		
lemonstrates the ability to	sides and of interior and exterior angles of		
construct or install Cabinet	triangles and polygons to classify figures and		
nstallation and clean-up	solve problems.		
·	(15.0) Students use the Pythagorean theorem		
	to determine distance and find missing lengths		
	of sides of right triangles.		
			1

Semester 2 - Unit 8 - Career Skills (5 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
17A - Accesses and utilizes technology and information. 17B - Practices occupational	Career Technical Education: *T/VMSRP/C5.0 Students understand and apply appropriate business practices	17A17B – Ongoing: Job Acquisition Skills	Teacher Resources:
safety standards.	C5.3 Understand the importance of and the	17C-17D-17E-17E-17F-17G -	Student Resources:
17C - Thinks critically and	procedures for maintaining accurate records	Ongoing:	Student Workbook to
solving problems effectively.	(e.g., business licenses, repair orders, billing	Problem solving/critical	accompany textbooks
17D - Uses basic skills in	and tax records).	thinking skills and behavior	accompany textbooks
reading, writing, mathematics,	C5.4 Understand the concept and application	thinking skills and behavior	Job Finders Guide
istening and speaking as	of accepted ethical business practices.	17H – Ongoing:	Job i ilideis Gaide
they relate to occupation	C5.5 Understand the concept and application	Verbal and non-verbal skills	Pocket Job Finders Guides
specific skills.	of acceptable customer relations practices.	Verbai and non-verbai skills	Pocket Job Finders Guides
17E - Attains a		471 Ongoing	
	Core Academic: *T/C/2.2W/WSA/G11-12/	17J – Ongoing:	
comprehensive		Cultural sensitivity	
understanding of all aspects	(2.5) Write job applications and résumés:	471/ 471 4784 4781 470 478	
of industry the individual is	a. Provide clear and purposeful information	17K-17L-17M-17N-170-17P-	
oreparing to enter.	and address the intended audience	17Q – Ongoing:	
17F - Applies knowledge to	appropriately.	Team building	
real world problems and	b . Use varied levels, patterns, and types of		
situations.	language to achieve intended effects and aid	17R – 4 hours:	
17G - Works independently	comprehension.	Resume and Application	
and collaboratively.	c . Modify the tone to fit the purpose and		
17H - Communicates	audience.	17S - Ongoing:	
effectively and appropriately. 17I - Performs reliably and	d . Follow the conventional style for that type of document (e.g., résumé, memorandum)	Job interview	
responsibly.	and use page formats, fonts, and spacing that	17T - 30 minutes:	
17J - Works with diverse	contribute to the readability and impact of the	Lifelong learning	
oopulations effectively and	document.	17U - 30 minutes:	
respectfully.		OUTSTANDING STUDENT	
I 7K - Is punctual.		AWARD	
17L - Follows directions.			
17M - Works well with			
minimum supervision.			
17N - Is cooperative.			
170 - Takes initiative by			
working beyond minimum			
equirements.			
17P - Meets job standards of			
neatness and grooming.			

17Q - Responds		
appropriately to constructive		
criticism.		
17R - Completes an		
appropriate resume and job		
application.		
17S - Acquires job interview		
techniques.		
17T - Attains awareness of		
advanced career and		
educational opportunities.		
17U - Received the ROP		
Outstanding Student Award.		