

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Woodworking

Course Code:

COURSE INTRODUCTION:

This course utilizes welding in the development and construction of major metal and wood projects. (CD 016770, CIP 01.0201).

Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Advanced skills in welding, woodworking, and project construction provide students with entry-level agricultural construction skills.

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UNIT DESCRIPTION: Students will learn to properly and safely use hand and power woodworking tools, as well as learn to properly select materials for construction projects.		SUGGESTED UNIT TIMELINE: 1 Week CLASS PERIOD (min.): 50 MINUTES				
ESSENTIAL QUESTIONS: 1. How do you properly and safely use hand and power woodworking tools? 2. How do you properly select materials for specific construction projects?						
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs/CLEs	PS	CCSS	AFNR Standards	DOK
1. Distinguish common woods used in agricultural construction.				RST11-12.4 RST11-12.9 L11-12.6	PST.04.01 PST.04.02	2
2. Select the proper fastener for a specific job.					CS.08.01 PST.01.03 PST.02.01 PST.02.02	2
3. List the actual and nominal dimensions of common construction lumber.				N-Q-1 N-Q-2 N-Q-3 RST11-12.9 WHST11-12.2	PST.04.01 PST.04.02	1

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4. Use hand woodworking tools.					CS.08.01 CS.08.02 CS.08.03 PST.01.03 PST.02.01 PST.02.02	2
5. Use power woodworking tools.					CS.08.01 CS.08.02 CS.08.03 PST.01.03 PST.02.01 PST.02.02	2
6. Select preservatives.					CS.08.01 CS.08.02 CS.08.03	2
7. Apply basic woodworking skills to make an appropriate woodworking project.				N-Q-1 N-Q-2 N-Q-3 G-CO-6 G-CO-7 G-CO-12 G-MG-1 G-MG-3 G-GMD-4 RST11-12.3 RST11-12.4 RST11-12.9 L11-12.6	CS.06.03 CS.07.01 CS.07.04 CS.08.01 CS.08.02 CS.08.03 PST.01.03 PST.02.01 PST.02.02 PST.04.01 PST.04.02	4
ASSESSMENT DESCRIPTIONS*: (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc.)						

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<p>Students will use common woodworking tools to lay out, cut, drill, and dress a board.</p> <p>Assessment will be based on the overall quality of the work and the ability to safely and correctly complete the project within the available time.</p> <p>*Attach Unit Summative Assessment, including Scoring Guides/Scoring Keys/Alignment Codes and DOK Levels for all items. Label each assessment according to the unit descriptions above (i.e., Grade Level/Course Title/Course Code, Unit #.)</p>	
Obj. #	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)
1-6	1. Lecture and demonstration
Obj. #	INSTRUCTIONAL ACTIVITIES: (What Students Do)
1-6	1. Students will engage in study questions in lessons 1 through 6.
7	2. Students will complete “JS 5.1, Using a Shaper”; “JS 5.2, Using a Router”; “JS 5.3, Using a Power Miter Box Saw”; “JS 5.4, Using a Reciprocating Saw”; and “JS 5.5, Using a Scroll Saw.”
	3. Additional activities that relate to the unit objective can be found under the heading “Other Activities” in the following locations: p. III-5 (1, 2), p. III-18 (1, 2, 3), p. III-27 (1), p. III-29 (2, 3), p. III-36 (1), and p. III-64 (1)
<p>UNIT RESOURCES: (include internet addresses for linking)</p> <ul style="list-style-type: none"> • <i>Agricultural Construction Volume II</i>. University of Missouri-Columbia, Instructional Materials Laboratory, 1989. www.mcce.org • <i>Agricultural Mechanics Building Plans</i>. University of Missouri-Columbia, Instructional Materials Laboratory, 1994. www.mcce.org • <i>Agricultural Mechanics Plans (Set)</i>. University of Missouri-Columbia, Instructional Materials Laboratory. www.mcce.org 	