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| **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?** |
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| **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.
 |  |  |  | RST11-12.4RST11-12.9L11-12.6 | PST.04.01PST.04.02 | **2** |
| 1. Select the proper fastener for a specific job.
 |  |  |  |  | CS.08.01PST.01.03PST.02.01PST.02.02 | **2** |
| 1. List the actual and nominal dimensions of common construction lumber.
 |  |  |  | N-Q-1N-Q-2N-Q-3RST11-12.9WHST11-12.2 | PST.04.01PST.04.02 | **1** |
| 1. Use hand woodworking tools.
 |  |  |  |  | CS.08.01CS.08.02CS.08.03PST.01.03PST.02.01PST.02.02 | **2** |
| 1. Use power woodworking tools.
 |  |  |  |  | CS.08.01CS.08.02CS.08.03PST.01.03PST.02.01PST.02.02 | **2** |
| 1. Select preservatives.
 |  |  |  |  | CS.08.01CS.08.02CS.08.03 | **2** |
| 1. Apply basic woodworking skills to make an appropriate woodworking project.
 |  |  |  | N-Q-1N-Q-2N-Q-3G-CO-6G-CO-7G-CO-12G-MG-1G-MG-3G-GMD-4RST11-12.3RST11-12.4RST11-12.9L11-12.6 | CS.06.03CS.07.01CS.07.04CS.08.01CS.08.02CS.08.03PST.01.03PST.02.01PST.02.02PST.04.01PST.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. )** Students will use common woodworking tools to lay out, cut, drill, and dress a board.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.**\*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 #.)** |
| **Obj. #** | **INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)**  |
| 1-6 | **1. Lecture and demonstration** |
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| **Obj. #** | **INSTRUCTIONAL ACTIVITIES: (What Students Do)** |
| 1-6 | 1. Students will engage in study questions in lessons 1 through 6.
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| 7 | 1. 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.”
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|  | 1. 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)
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| **UNIT RESOURCES: (include internet addresses for linking)*** *Agricultural Construction Volume II*. University of Missouri-Columbia, Instructional Materials Laboratory, 1989. www.mcce.org
* *Agricultural Mechanics Building Plans*. University of Missouri-Columbia, Instructional Materials Laboratory, 1994. www.mcce.org
* *Agricultural Mechanics Plans (Set)*. University of Missouri-Columbia, Instructional Materials Laboratory. www.mcce.org
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