GRADE LEVEL/UNIT TITLE: 11-12/Ag Structures Plans	Course Code:
COURSE INTRODUCTION:	
This course includes electrical wiring, electrical motors, concrete masonry, plumbing and s processing equipment, and farm buildings. (CD 016720, CIP 01.0201)	sewage disposal, farm fences, product handling and
Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resolution resolution. Basic construction skills and knowledge in electricity, plumbing, concrete, and structures.	

Course Code:

UNIT DESCRIPTION:	SUGGESTED UNIT TIMELINE: 2 Weeks
Students will learn to develop a complete construction plan, including construction drawings, procedures, and bills of materials.	CLASS PERIOD (min.): 50 MINUTES

ESSENTIAL QUESTIONS:

1. How do you develop a complete construction plan?

ESSENTIAL MEASURABLE LEARNING OBJECTIVES CCSS LEARNING GOALS (Anchor Standards/Cluste		CROSSWALK TO STANDARDS				
	(Anchor Standards) clusters)	GLEs/CLEs	PS	ccss	AFNR Standards	DOK
Read and create a simple construction drawing				G-CO-1 G-CO-12 G-CO-6 RST11-12.2 RST11-12.3 RST11-12.9 SL11-12.2	PST 04.01 PST 04.02.01.a PST 04.03.01.a	2
Develop a plan of procedure and a bill of materials for a construction project				N-Q-2 SL11-12.2 RST11-12.9 WHST11-12.2	PST 04.01 PST 04.02.01.a PST 04.03.01.a	4

GRADE LEVEL/UNIT TITLE: 11-12/Ag Structures Plans

Course Code:

3. Demonstrate an understanding of the		N-Q-2	PST 04.01	4
importance planning has on effective work		G-CO-1	PST 04.02.01.a	
procedure by drawing a construction plan and developing a plan of procedure, a cutting bill		G-CO-12	PST 04.03.01.a	
of materials, and a purchasing bill of		G-CO-6		
materials.		SL11-12.4		
		RST11-12.9		
		L11-12.6		
		WHST11-12.2		

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 develop a construction plan for a project by making three scale drawings — one each for the top, front, and side of the project. Students must also devise a plan of procedure, a cutting bill of materials, and a purchasing bill of materials for a project.

Assessment will be based on the completeness, accuracy, and appearance of the drawings and the overall thoroughness and accuracy of the plan of procedure and bills of materials.

*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)
1-3	1. Lecture, discussion, & demonstration.
1-3	2. Individual Work.
Obj. #	INSTRUCTIONAL ACTIVITIES: (What Students Do)
1-3	1. Students will engage in study questions in lessons 1 and 2.
1-3	2. Students will complete "AS 1.1, Reading a Plan"; "AS 1.2, Drawing a Plan"; and "AS 2.1, Preparing a Plan of Procedure."

GRADE LEVEL/UNIT TITLE: 11-12/Ag Structures Plans

Course Code:

3. Additional activities that relate to the unit objective can be found under the heading "Other Activities" in the following locations: p. I-5 and p. I-32

UNIT RESOURCES: (include internet addresses for linking)

- Agricultural Construction Volume I. University of Missouri-Columbia, Instructional Materials Laboratory, 1989.
- Agricultural Structures. University of Missouri-Columbia, Instructional Materials Laboratory, 1999.
- Computer Applications in Agriculture. University of Missouri-Columbia, Instructional Materials Laboratory, 2001.