

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Ag Structures Home and Farmstead Planning

Course Code:

COURSE INTRODUCTION:

This course includes electrical wiring, electrical motors, concrete masonry, plumbing and sewage disposal, farm fences, product handling and processing equipment, and farm buildings. (CD 016720, CIP 01.0201)

Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Basic construction skills and knowledge in electricity, plumbing, concrete, and masonry are necessary for the building of agricultural structures.

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UNIT DESCRIPTION:		SUGGESTED UNIT TIMELINE: 3 WEEKS					
Students will learn the importance of proper home and farmstead planning.		CLASS PERIOD (min.): 50 MINUTES					
ESSENTIAL QUESTIONS:							
1. Why is home and farmstead planning important?							
ESSENTIAL MEASURABLE LEARNING OBJECTIVES		CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
			GLEs/CLEs	PS	CCSS	AFNR Standards	DOK
1. Evaluate a site for a home.					N-Q-1 N-Q-2 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4	ESS.02.01 ESS.03.02.04	3
2. Arrange a farmstead.					N-Q-1 N-Q-2	CS.01.01.04 ESS.02.01 ESS.03.02.04	2
3. Describe characteristics of disposal systems for managing livestock manure.					SL11-12.1 SL11-12.4 RST11-12.9 WHST11-12.2 L11-12.6	ESS.02.01	2
4. Apply principles of farm and homestead planning by devising a farmstead plan and explaining design decisions in paragraph form.					N-Q-1 N-Q-2 RST11-12.9 L11-12.6	CS.01.01.04 ESS.02.01 ESS.03.02.04	4

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				WHST11-12.2	
<p>ASSESSMENT DESCRIPTIONS*: (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc.)</p> <p>Students will design a farmstead plan and explain their design decisions on separate paper in paragraph form. Students must explain how they designed their farm in relation to topography, wind, natural resources, type and size of business, service and utilities, home, neighbors, and how regulatory agencies would view the plan.</p> <p>Assessment will be based on the overall content and presentation of the farmstead plan and explanations. Spelling, grammar, and punctuation also will be factors in the assessment.</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)				
1-3	1. Lecture, Discussion, Study Questions, Group and Individual Project Work.				
1-4	2. Group and Individual Project Work, Presentations, Evaluation of Projects by Peers and Teacher.				
1-4	3. Optional – Field Trip to Farm Sites				
Obj. #	INSTRUCTIONAL ACTIVITIES: (What Students Do)				
1-3	1. Students will engage in study questions in lessons 1 through 3.				
1-4	2. Students will complete “AS 1.1, Evaluating Home Sites”; “AS 1.1, Farmstead Planning”; “AS 1.2, Planning a Farmstead”; and “AS 3.1, Resources for Manure Management.”				
1-4	3. Additional activities that relate to the unit objective can be found under the heading “Other Activities” in the following locations: p. II-7, p. II-18, and p. II-30.				
<p>UNIT RESOURCES: (include internet addresses for linking)</p> <ul style="list-style-type: none"> • <i>Agricultural Structures</i>. University of Missouri-Columbia, Instructional Materials Laboratory, 1999. • Agriculture Publications. MU Extension. University of Missouri-Columbia. Accessed January 17, 2012, from 					

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Course Code:

<http://muextension.missouri.edu/explore/agguides/>.

- Cook, J. B., & Nickolaus, G. F. *Basic Procedures in Administration of Zoning Regulations: Appeals*. MU Extension. University of Missouri-Columbia. Accessed January 17, 2012, from <http://muextension.missouri.edu/explore/commdm/dm7613.htm>.
- Cook, J. B., & Nickolaus, G. F. *Basic Procedures in Administration of Zoning Regulations: Making Applications*. MU Extension. University of Missouri-Columbia. Accessed January 17, 2012, from <http://muextension.missouri.edu/explore/commdm/dm7612.htm>.
- Local regulatory agencies, such as the planning and development department, public works department, and county board of commissioners
- Missouri Cooperative Soil Survey. Accessed January 17, 2012, from <http://soils.missouri.edu/>.
- NASCO On-Line Catalogs. Accessed August 25, 2003, from . <http://enasco.com>