School of Agriculture

Department of Agricultural Sciences
AMC – 315: Agricultural Systems Technology Management
Syllabus (Fall 2015)

Instructor
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Office Hours
If the door is open, come on in. If you need to schedule something, see me; Email - anytime.

Course Description
This course encompasses methods of planning, teaching, and motivating students in agricultural mechanics. The course is designed for students preparing to teach agricultural science in public schools of Texas. Focus will be on developing the necessary skills to facilitate and supervise a successful agricultural mechanics program.

Course Objectives
Upon successful completion of this course, a student should be able to:

- Practice and model safety procedures in an agricultural mechanics laboratory.
- Identify tools and materials common to agricultural mechanics laboratories.
- Demonstrate basic shop skills common to agricultural mechanics laboratories through the construction of agricultural mechanics projects.
- Develop instructional objectives for the agricultural mechanics laboratory.
- Utilize various laboratory teaching procedures and management techniques.

Class Hours
Lecture
Monday 11:00 – 12:40 PM, AGIT 255

Labs
Monday or Wednesday 1:00 – 2:50 PM, AGIT 149

Textbook
Herren. R. V. (2009). Agricultural mechanics: Fundamentals and applications (6th edition). Clifton Park, NY: Cengage Learning (**ISBN-13: 978-1-4354-0097-9**).

Course Schedule

Class	Month	Date	Topic	Readings	Projects	Quizzes
M	August		Orientation, Syllabus, Safety in the Shop, & Cleanup/Organization	Units 3 - 6		
			Hand Tools, Measuring Instruments, & Power Tools	Units 7 - 8 & 14 - 17		Safety & Tools Quiz
M	September	7th	**Labor Day/ No class**			
M		14th	Wood Working and Painting	Unit 9	Wood Working project	
M		21st	Wood Working and Painting	Unit 9		Wood Working Quiz
M		28th	Plumbing	Unit 37	Plumbing Project	
M	October	5th	Plumbing	Unit 37		Plumbing Quiz
M		12TH	Electricity	Unit 33	Electricity project	
M		19TH	Electricity	Unit 33		Electricity Quiz
M		26TH	Electricity	Unit 33		

Course Schedule (continued)						
Class	**Month**	**Date**	**Topic**	**Readings**	**Due Dates**	**Quizzes**
M	November	2nd	Fastening Metal	Unit 25	Fastening Metal Project	
M		9th	Fastening Metal	Unit 25		Fastening Metal quiz
M		16th	Agricultural Structures	Unit 41	Structures Project	
M		30th	Agricultural Structures	Unit 41		
M	December	7th	Agricultural Structures	Unit 41		Structures Quiz
M		14th	Lab Cleanup and Organization			
			FINAL EXAM:			

Grades will be determined by using the following criteria

Module	Number	Points each	Total Points
Projects	6	100	600
Unit Quizzes	7	100	700
Final Exam	1	100	100
Total			**1400**

Final Grade = Your total points earned = _____
Total Possible Points 1400

(A = 90 or above, B = 80-89, C = 70-79, D = 60-69, F = below 60)

Web & Computer Use

Computers are an integral part of the agricultural profession and students are expected to use this technology as part of the course. Some materials for this course will be located *e*College. These materials are part of the course and you will be expected to review it regularly. Students not familiar with computers or use of the Web are strongly encouraged to seek training. The student can access the following information on the course website on *e*College:

- Course syllabus
- Course announcements and changes (if any)
- Lecture Notes (provided as a study aid only)
- Lab Exercises
- Grades
- Assignments
- Other resources

Unit Quizzes

On the last day or after completion of each project, a Unit Quiz will be given at the beginning of the next class period. This will cover the material from the chapter readings, in-class lectures, and lab of the completed unit. No make ups will be allowed. Students with excused (**prior notice required**) absences will be given an alternate quiz. Questions may be a combination of short answer, multiple choice, problems, and tool identification.

Course projects

Class projects are due at the **end of class** on the date indicated. Students are **not permitted** to work on individual projects in the absence of the instructor or other "approved" faculty member. Work turned in late will be penalized **10 points**.

Dress Code and Safety

Safety is a primary concern while working in the lab. Proper clothes, gloves, shop coats, or coveralls should be worn while working in the lab (no loose clothing). Long hair must be restrained. Closed toe shoes are required. Work boots are recommended. **Safety glasses should be worn at all times**. Ear plug are recommended when working with loud machines. Students that are not working in a safe manner will be required to leave the shop. This includes failure to wear adequate eye protection.

Students with Disabilities:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library
Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu