

PRAIRIE VIEW A&M UNIVERSITY
College of Agriculture and Human Sciences
AGEG 1413 Fundamentals of Agricultural Engineering
COURSE SYLLABUS

FALL SEMESTER 2016

AGEG 1413: Fundamentals of Agricultural Engineering		
Instructor Name:	Alton B. Johnson, Ph.D.	
Office Location:		
Office Phone:	936-261-5111	
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Email Address:	abjohnson@pvamu.edu	
U.S. Postal Service Address:	Prairie View A&M University	
	P.O. Box	519
	Mail Stop	MS2008
	Prairie View, TX 77446	
Office Hours:	MW 10:30 – 12:00; Ag. & Business Building Room 421	
Virtual Office Hours:		
Course Location:	Agriculture & Business Building, Room 120	
Class Meeting Days & Times:	Tuesdays Section P01: 2:00 p.m.-3:50 p.m.; Laboratory: Thursday 2:00 p.m.-3:50 p.m.	
Course Abbreviation and Number:	AGEG 1413	
Catalog Description:	Introduction to the major areas of applying engineering principles to solving problems in agriculture. Emphasis is placed on problem solving skills, farm workshop methods, tool identification, land measurement methods and skills. Will include introduction to elementary surveying.	
Prerequisites:	Working knowledge of the number system and basic mathematics	
Co-requisites:	None	
Required Text:	Introduction to Agricultural Engineering Technology. 3rd Edition (- H. L. Field; and J. B. Solie.) Soil and Water Conservation Engineering - 5 th Edition	
Reference Text:	Engineering Applications in Agriculture (- W. Bowers, B. A. Jones, Jr. and E. F. Olver.) http://en.wikipedia.org/wiki/agricultural_engineering	
Access to Learning Resources:	PVAMU Library: phone: (936) 261-1500; web: http://www.tamu.edu/pvamu/library/ University Bookstore: phone: (936) 261-1990;	

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		web: https://www.bkstr.com/Home/10001-10734-1?demoKey=d		
Course Goals or Overview:				
	At the end of the course students should be able to solve problems utilizing the basic concepts of agricultural engineering in the following broad areas: i) Basic Problem Solving Skills ii) Elementary Surveying/ Basic Soil and Water considerations; iii) Basic Shop Skills including Shop Safety; iv) Farm Structures and Environment; v) Farm Power and Machinery; vi) Economic Aspects of Agricultural Engineering			
Course Objectives/Accrediting Body Learning Outcomes:				
KR 4.2.a: Expected Learning Outcome: Students are able to apply basic problem-solving techniques to agricultural problems and issues. KR 4.2.b: Expected Learning Outcome: Students are able to develop outcome measures, use informatics principles and technology to collect and analyze data for assessment and evaluate data to use in decision-making. SK5.1c: Expected learning Outcome: Students are able to understand and explain principles of agricultural mechanics and farm mechanization				
At the end of this course, the student will				
		Alignment with Academic Program		Alignment with Core Curriculum
1	Have a basic knowledge of standard form of estimating answers. Basic problem solving skills	Program Core	T, R	1,2,3
2	Understand the concepts of land measurements including surveying	Program Core		1,2,3
3	Have a knowledge of farm water systems	Program Core		1,2,3
4	Understand concepts of Work Power, Horsepower and torque	Program Core		1,2,3,4
5	Understand Internal Combustion Engines and Power applications	Program Core		1,2,3
6	Have a basic knowledge of Economic considerations in agricultural engineering	Program Core		1,2,3,4

Code Key: T=Taught
R=Reinforced
I = Integrated

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Exams – written tests designed to measure knowledge of presented course materials

Exercises – written assignments designed to supplement and reinforce course materials

Class Participation – daily attendance and participation in class discussions

Course Procedures

Submission of Assignments:

(Assignments should be submitted on time to avoid assessment of penalty points!)

Formatting Documents:

Microsoft Word is the standard word processing tool used at PVAMU. If you're using other word processors, be sure to use the "save as" tool and save the document in either the Microsoft Word, Rich-Text, or plain text format.

Exam Policy

Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).

Professional Organizations and Journals

References/Extra Materials

Valid email address

PVAMU student ID #

Computer and/or USB Drive

Course Grading Procedure and Evaluation

Two Tests	15%
Pop Quizzes (Several)	10%
Home Work Assignments	25 %
Mid-term examination	20 %
Final examination	15 %
Project	15%

Total	100%
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(Bonus: Attendance and Participation 10 extra points)

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Grade

A = 90 - 100%
B = 80 - 89
C = 70 - 79
D = 60 - 69
F = 0 - 59

All exams will be given on the announced date. All students must be present as I do not give make-up exams unless caused by a university excused absence. I also understand that emergencies do occur. If a university excused absence or a valid emergency is reported to me and approved, I will allow a make-up exam that must be taken during the next scheduled class period to avoid a penalty. Otherwise, taking the exam after this time will result in an ASSESSED PENALTY COST OF 10% PER DAY FOR EVERY DAY THAT THE EXAM HAS NOT BEEN TAKEN and will continue indefinitely until the exam is taken.

University Rules and Procedures

Disability statement (See Student Handbook):

Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to

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identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual misconduct (See Student Handbook):

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Attendance Policy:

Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

Submission of Assignments:

Assignments, Papers, Exercises, and Projects will distributed and submitted through email. Directions for accessing your online course will be provided. Additional assistance can be obtained from the Office of Distance Learning.

VERY IMPORTANT ADDENDA:

Absolutely No **Cell Phones** will be allowed during Classes.
No **Texting** or responding to **text messages** will be allowed.
No **Headphones, iPhones**, or other listening devices will be allowed.

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The class lectures, reading materials, and assignments are each intended as different learning opportunities. You are responsible for all reading material, regardless of coverage in class. In fact, rarely will we discuss all of the reading material directly. Generally, the reading materials are used to provide the basis for a class discussion, exams and grades. All readings outside of the text will be distributed in class with the lecture notes and are due to be completed prior to the next class period.

The course format is centered on lectures and discussions covering basic reading materials. I fully expect you to actively participate in the discussions during and following the lectures. It is your responsibility to raise questions when a point is not clear. If questions are not asked, I will assume that you fully understand the material covered in class as well as the reading material.

The guiding principles for this course are

- Respect for each other.
- Strive for excellence.
- Seek personal mastery of the subject matter.
- Display personal integrity.
- Foster an open and insightful dialog.
- Be personally accountable for our words and deeds

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STATEMENT OF AGREEMENT

I have read the Course Syllabus for AGEG 1413 for the Fall Semester 2015, including the Class Lecture and Event Schedule, and agree to abide by the conditions for the class as spelled out in this document. My signature indicates my personal commitment to meeting the course objectives and succeeding in this educational endeavor.

Signature

Student name (Please print neatly)

Student ID #

Date

**RETURN THIS PAGE FROM THE SYLLABUS TO THE INSTRUCTOR TO
COMPLETE YOUR ENROLLMENT IN THIS COURSE.**

RECEIVED WITH STUDENT'S SIGNATURE ENTERED INTO GRADE BOOK: