© Prairie View A&M University College of Agriculture and Human Sciences

FUND	AMENT	© Prairie View A&M University College of Agriculture and Human Sciences TALS OF AGRICULTURAL ENGINEERING (AGEG 1413)			
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<u>-</u>	Ecc	Iture, Nutrition & Human College of Agriculture and Human Sciences ology			
Instructor Name		Dr. Eric Risch			
Section # and C					
Office Location	:	Agricultural Research Building: Rm # 106 or Agri-Business Building Rm #404			
Office Phone:		(936) 261-5040			
Fax:		(936) 261-9975			
Email Address:		Errisch@pvamu.edu			
Mail (U.S. Posta	al Service	, , , , , , , , , , , , , , , , , , , ,			
		P.O. Box 519			
		Mail Stop 2008			
		Prairie View, TX 77446			
Office Hours:	appointn discusse	100 AM - 12:00 Noon. Other times by appointment. Students are advised to make ments with the professor ahead of time and be specific with the subject matter to be ed. Students should also be prepared for their appointment by bringing all applicable ls and information to the professor.			
Virtual Office H	ours: T	ГВА			
Course Locatio		Agri-Bus Rm 121			
Class Meeting I					
Course Abbrev Catalog Descrip		Introduction to the major areas of applying engineering principles to solving			
	W	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	ng knowledge of the number system and basic mathematics.			
Co-requisites:	None	ig knowledge of the number system and basic mathematics.			
CO-requisites.	INOHE				
Required Text:		uction to Agricultural Engineering Technology. 3 rd Edition L. Field; and J. B. Solie.)			
Defense	Ι,				
References:		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; 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

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment		Core Curriculum Outcome Alignment
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	Т	1,2,3
3	Have knowledge of farm water systems.	Program Core	R	1,2,4,
4	Understand concepts of Work, Power, Horsepower and torque	Program Core	Т	1,2,3,4
5	Understand Internal Combustion engines and Power applications.	Program Core	Т	1,2,3
6	Have basic knowledge of Economic considerations in agricultural engineering.	Program Core	Т	1,2,3,4

Code Key T = Taught

R = Reinforced

I = Integrated

Course Grading Procedures and Evaluation:

Two Tests	20 %
Pop Quizzes (Several)	10
Mid-Term Examination	20
HW Assignments	30
Final Examination	20

Total possible points 100 %

(Bonus: Attendance & Participation. 10 extra points!)

Grade

Α	90 – 100%
В	80 - 89
С	70 - 79
D	60 - 69
F	0 – 59

Submission of Assignments:

Assignments are expected to be submitted on time.

Formatting Documents:

Microsoft Word is the standard word processing tool used at PVAMU. If you are 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.

Exercises – written assignments designed to supplement and reinforce course material **Class Attendance** – daily attendance is required and absenteeism is strongly discouraged.

VII. ATTENDANCE AND PARTICIPATION POLICY

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video. 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 during the semester. The university's attendance policy is provided below.

Excused Absences

Absences due to illness, attendance at university approved activities, and family or other emergencies constitute excused absences and must be supported by documentation presented to the instructor prior to or immediately upon the student's return to class. Students are always responsible for all oral and written examinations as well as all assignments (e.g., projects, papers, reports).

Excessive Absences

Accumulation of one week of unexcused absences (for the number of clock hours equivalent to the credit for the course) constitutes excessive absenteeism. The instructor is not required to accept assignments as part of the course requirement when the student's absence is unexcused.

Absences on Religious Holy Days

In accordance with Texas Education Code, Section 51.925, subchapter (Z), a student may be absent from classes for the observance of a religious holy day and will be permitted to take missed examinations and complete missed assignments provided the student has notified the instructor of the planned absence in writing and receipt of the notice has been acknowledged by the instructor in writing. "A religious holy day means a holy day observed by a religion whose place of worship is exempt from property taxation under the Texas Tax Code, Section 11.20."

Cell Phone use during class is ABSOLUTELY PROHIBITED, with FEW EXCEPTIONS: e.g. The Instructor may give permission for you to do a **SEARCH** for specific information during class using an approved search engine.

COURSE OUTLINE: EVENT AND LECTURE SCHEDULE

This schedule is subject to change as the semester proceeds in order to cover the most important material in the time allotted. Any revisions will be duly noted and announced in class. All referenced readings are taken from the required text, Introduction to Agricultural Engineering Technology. 3^{rd} Edition

(- H. L. Field; and J. B. Solie.)

Week # and Class#	Date	Topics and Assignments
Waste #4	Jam 15, 2010	Lashina Carmanh #1.
Week #1 Class #1	Jan 15, 2019	Lecture Segment #1: Introductions:
Class #1	[Tuesday]	
		 Getting to know the
		instructor and class members.
		The Course Syllabus:
		 Course objectives,
		assignments, university
		regulations and grading
		policies.
		Assignments:
*** * "*		Begin reading Chapter 1.
Week #1	Jan 17, 2019	Lecture Segment #2
Class #2	[Thursday]	Assignments: Read:
	Jan 18, 2019	UNDERGRADUATE
a	[Friday]	• LATE
		REGISTRATION/ADD
		COURSES/CHANGE
		COURSE/CHANGE
		MAJOR/SCHEDULE ENDS
		UNDERGRADATE
		 WEB REGISTRATIONS
		CLOSED
<u>-</u> m-	Jan 19, 2019	GRADUATE
<u></u>	[Saturday]	• LATE
1		REGISTRATION/ADD
		COURSES/CHANGE
		COURSE/CHANGE
		MAJOR/SCHEDULE ENDS
		UNDERGRADATE
		 WEB REGISTRATIONS
		CLOSED
Week	Jan 21, 2019	MLK Day - University Closed

40	NA 1	
#2	Monday	
Week #2	Jan 22, 2019	Lecture Segment #3:
Class #3	·	Assignments:
	[Tuesday]	Read:
Week #2	Jan 24, 2019	
Class #4	[Thursday]	Loctural Sagment #4
B		Lecture: Segment #4 Assignments:
		Read:
Week #3	Jan 29, 2019	Lecture Segment #5:
Class #5	[Tuesday]	Assignments:
	[racsaay]	• Read:
Week #3	Jan 30, 2019	- CENSUS DATE (12TH
B	[Wednesday]	CLASS DAY): COURSE
10	- /-	RESERVATIONS
		CANCELLED FOR NON-
		PAYMENT
		 LAST DAY TO WITHDRAW
		FROM COURSE WITHOUT
		RECORD
Week #3	Jan 31, 2019	Lecture Segment #6:
Class #6	[Thursday]	Assignments:
h		• Read:
R		 WITHDRAWAL FROM COURSES "WITH
		RECORD" (W) BEGINS
Week #4	Feb 5, 2019	Lecture Segment #7:
Class #7	[Tuesday]	Assignments:
	[· acsaay]	 Read : To be assigned
Week #4	Feb 7, 2019	Lecture Segment #8:
Class #8	[Thursday]	Assignments:
	- ,-	 Read: To be assigned
Week #5	Feb 12, 2019	Lecture Segment #9:
Class #9	[Tuesday]	EXAM #1
Week #5	Feb 14, 2019	Lecture Segment #10:
Class #10	[Thursday]	Assignments:
		 Read: To be assigned
		EXAM #1 GRADES
		POSTED
Week #6	Feb 19, 2019	Lecture Segment #11:

Class #11	[Tuesday]	Assignments:
		Read: To be assigned
Week #6	Feb 21, 2019	Lecture Segment #12:
Class #12	[Thursday]	Assignments:
	_	Read: To be assigned
Week #7	Feb 26, 2019	Lecture Segment #13:
Class #13	[Tuesday]	Assignments:
		Read: To be assigned
Week #7	Feb 28, 2019	Lecture Segment #14:
Class #14	[Thursday]	Assignments:
	- /-	 Read: To be assigned
Week #8	Mar 5, 2019	Lecture Segment #15:
Class #15	[Tuesday]	Assignments:
5.055 11 = 5	[::::::::::::::::::::::::::::::::::::::	 Read: To be assigned
Week #8	Mar 7, 2019	Mid-Semester Exams
Class #16	[Thursday]	The Semester Exams
Glass // 10	[Indisday]	
	March 6 – 8,	MID -SEMESTER
	2019	EXAMINATION PERIOD
Week #9	March 11 -	SPRING BREAK
Class #17	16, 2019	
W- al- #40	May 10, 2010	Lashwa Campanh #47.
Week #10	Mar 19, 2019	Lecture Segment #17:
Class #16	[Tuesday]	Assignments:
	14 00 0010	 Read: To be assigned
Week #10	Mar 20, 2019	FALL 2018 GRADUATION
Class #18	[Wednesday]	APPLICATIONS DEADLINE
	Mar 21, 2019	Acciennacuto
	[Thursday]	Assignments:
		 Read: To be assigned
M 1 1/4 4	M 26 2016	Lastraca Co. L. "St
Week #11	Mar 26, 2019	Lecture Segment #21:
Class #21	[Tuesday]	Assignments:
		Read:
Week #11	Mar 28, 2019	Lecture Segment #22:
Class #22	[Thursday]	Assignments:
CIUUU TI EE	[Read: To be assigned
Mar 22, Last day		
2019 to		
withdraw		
[Friday] with "W"		

Week #12	Apr 2, 2019	Lecture Segment #23:
Class #23	[Tuesday]	EXAM #2
Week #12	Apr 4, 2019	Lecture Segment #24:
Class #24	[Thursday]	Assignments:
		Read: To be assigned
		EXAM #2 GRADES
		POSTED
Week	Apr 8 - 12,	PRIORITY
#13	2019	
5		REGISTRATION BEGINS
		FOR SPRING 2019
Week #13	Apr 09, 2019	Lecture Segment #25:
Class #25	[Tuesday]	Assignments:
L		• Read:
P		- PRIORITY
		REGISTRATION BEGINS
		FOR SUMMER AND FALL
	A 11 2010	2013 SEMESTERS.
Week #13	Apr 11, 2019	Lecture Segment #25:
Class #26	[Thursday]	Assignments:
Week #14	Apr 16, 2019	Lecture Segment #27:
Class #27	[Tuesday]	Assignments:
Class # 27	[idesday]	Read: To be assigned
Week #14	Apr 18, 2019	Lecture Segment #28:
Class #28	[Thursday]	Assignments:
	[indisday]	Read: To be assigned
Week #15	Apr 30, 2019	
TOOK IF 19	p. 00, 2019	
<i>∞</i>	May 1 – 7,	FINAL EXAMINATION
	2019	
	M 0 0010	PERIOD
	May 9, 2019	FINAL GRADES DUE FOR
<u> </u>	[Thursday]	GRADUATING CANDIDATES
	May 11, 2019	COMMENCEMENT
	[Saturday]	
	May 14, 2019	FINAL GRADES DUE FOR ALL
<u>_</u>	[Tuesday]	STUDENTS

In order to ensure that you have read over this entire document you are required to sign the Statement of Agreement on the final page of the syllabus and return it at the start of next class period. This will be our contract that you have read over the entire syllabus and that you understand what is expected of you in this class.

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I have read the Course Syllabus AGEG 1413 (Fundamentals of Agricultural Engineering) for the Spring semester 2019, 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.

<u> </u>			
Signature-Student			
Student name	(Please print neatly)	Student ID #	 Date
Signature-Instruct	cor	_	
Instructors name		 Date	e
	PAGE FROM THE SYLLABI		OR TO
□ RECEIVED WIT	H STUDENT'S SIGNATURE:		
☑ ENTERED INTO	GRADE BOOK:		