Section / Time / Location: 004 / MWF 10:00-10:50am / MATH			014	Instructor:	Josh Engwer
				E-mail:	josh.engwer@ttu.edu
				Website:	http://www.myweb.ttu.edu/jengwer or Google <sup>TM</sup> "josh engwer"
Office Hours:	MWF 11:00am - 2:00pm	n (or by appt.)		Office:	MATH 003A
Textbook:	PROBABILITY & STA	TISTICS FOR	R ENGIN	EERING ANI	O THE SCIENCES 9 <sup>th</sup> Ed by Devore
Course Content: (not exhaustiv   (4 hrs) Ch1 Descrip   (5 hrs) Ch2 Pr	otive Statistics robability	[i.e. <b>Calcu</b> – hours are ap (1 hr) Ch6 (4 hrs) Ch7 (5 hrs) Ch8	proximat 1-Sam	Point 2 ple Inference	Estimation e: Confidence Intervals ee: Hypothesis Testing
· · · · ·	Continuous Random Variables (4 hrs) Ch9 2-Sample Inference			••	
· · · · ·	Limit Theorem	· /		1	
. ,	1	m ork-10%,~3~x	Midterm	Exams (20% e	each) – 60%, <b>Final Exam – 25%</b>
Final Grade Scale: A: 100%-9	0% B: 89%-80% C	C: 79%-70%	D: 69%-0	50% F: 59%	5-0%
Attendance Policy: Attendance	will be taken – it's your	responsibility	to sign/ir	itial your nam	e on the roll sheet each class.

You should work HW problems by pencil & paper to realize the amount of work to be expected for similar problems on exams.

<u>Calculators</u>: Any graphing or scientific calculator is permitted on exams. Avoid "basic" & "printing" calc's. Phones, laptops & tablets are forbidden as calculators on exams.

<u>Midterm Exams</u>: In-class, calculator permitted, formula sheet provided, closed-'everything else' Expect exam questions to be mostly/entirely free-response! Be prepared to show your RaiderCard. Sufficient correct work must be shown to receive full points on exam problems – answers without work earn no credit!

**Final Exam:** In-class, comprehensive, calculator permitted, formula sheet provided, closed-'everything else' **Bluebook required!** Instructor writes Final Exam. Expect exam questions to be mostly/entirely free-response! It will be administered on Monday, May 16<sup>th</sup>, 1:30pm - 4:00pm in room MATH 014. FAILING TO SHOW UP & TAKE THE FINAL EXAM WILL RESULT IN A FINAL GRADE OF "F", REGARDLESS OF HOW STELLAR YOUR COURSE GRADE MAY BE BEFORE THE FINAL EXAM!!

Make-up Policy: Homework will not be accepted late - hence, no make-ups for homework.

There will be no make-up exams given except for observance of a religious holiday.

If a midterm exam is missed for a **legitimate documented** reason, then the Final Exam score will replace it. Some legitimate excuses (with documentation): university field trip, severe illness, death in the family, ... Some non-legitimate excuses: "I already bought plane tickets", "I was stuck in traffic", "I overslept", ...

**<u>Email Communication</u>**: Please use your **TTU email address** when sending email to the instructor. All instructor-responses & class-wide announcements will be sent to your **TTU email address**.

KEYS TO SUCCESS: Show up. Work problems. Seek help when stuck. Show work. Manage time.

I <u>never</u> curve nor accept exam corrections nor drop the lowest exam score nor assign extra credit assignments!

## TTU – MATH 3342 – Engineering Statistics – Spring 2016

**Learning Objectives:** MATH 3342 satisfies part of the university Core Curriculum requirement in Mathematics: "Students graduating from Texas Tech University should be able to demonstrate the ability to apply quantitative and logical skills to solve problems." It meets the TTU general education student learning outcomes for mathematics that students will:

- Apply arithmetic, algebraic, geometric, statistical and logical reasoning to solve problems.
- Represent and evaluate basic mathematical and/or logical information numerically, graphically and symbolically.

• Interpret mathematical or logical models such as formulas, graphs, tables and schematics and draw inference from them.

In particular, students will master the concepts of:

- Understand the need to be wary of statistical claims, common pitfalls in sampling, and misrepresentation of conclusions.
- Understand the meanings of statistical measures including mean, median, mode, standard deviation, variance & quantiles.
- Become familiar with various graphical representations of data and learn to recognize misleading graphs.
- Develop proficiency in probability distributions & real-world probability problems.
- Use and interpret the Central Limit Theorem, confidence intervals & hypothesis tests.

## ADA Accommodation: (from OP §34.22)

Any student who, because of a disability, may require special arrangements in order to meet the course requirements should present appropriate verification from Student Disability Services (SDS) during the instructor's office hours.

For details, contact the SDS office: (Address) 335 West Hall (Phone) 806-742-2405.

## Religious Holy Day Observance: (from OP §34.19)

- "Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Texas Tax Code §11.20.
- A student who intends to observe a religious holy day should make that intention known in writing beforehand. A student who is absent for the observance of a religious holy day shall be allowed to take an exam or complete an assignment scheduled for that day within a reasonable time after the absence.
- A student who is excused for a religious holy day observence may not be penalized for the absence. However, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

Civility in the Classroom: Students are expected to assist in maintaining a classroom environment conducive to learning.

- No chatting. No newspapers. No periodicals. No music players. Silence phones.
- When the instructor says "Let's get started," all talking should stop.
- Students who insist on using a laptop or tablet should sit in the back two rows. Of course, the device should be silenced.

## Academic Integrity: (from OP §34.12)

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and a high standard of integrity. Any attempt of scholastic dishonesty by the student is liable to serious consequences, possibly suspension.

Scholastic Dishonesty: "Scholastic dishonesty" includes (but is not limited to): Cheating & Misrepresenting Facts

Cheating: "Cheating" includes (but is not limited to):

- Copying from another student's exam
- Using unauthorized materials during an exam
- Collaborating with another student during an exam
- Leaving the exam room without submitting the exam for grading
- Taking an exam for someone else

Misrepresenting Facts: "Misrepresenting facts" includes (but is not limited to):

- Marking an absent student as present on the attendance roll sheet.
- Providing false or misleading information in an effort to receive a postponement or an extension on an exam or HW.