MATH 1342, Fall 2024
Statistics 1

Instructor Information

Professor:	Dr. Stephen Graves
Office:	RBN 4011
Email:	sgraves@uttyler.edu
Dept. Phone:	903-565-5839

The preferred method of contact is via Canvas.
uttyler.instructure.com

Class Meeting Times

Section	Days	Times	Location
008	MoWeFr	11:15 – 12:10	RBN 4034
010	MoWeFr	13:25 – 14:20	RBN 3040

Office Hours

MoWeFr	08:05 — 09:00	RBN 4011

Course Information

Official Course Description. Measures of central tendency and dispersion, sampling, probability, testing of hypothesis, correlation and regression, and analysis of variance.

Course Prerequisites. An acceptable score on ACT, SAT, STAAR, or TSI exam.

Student Learning Outcomes. Upon completion of this course, students should be able to do the following:
- Demonstrate ability to summarize and interpret data;
- Calculate bootstrap confidence intervals for various population parameters;
- Perform randomization hypothesis tests for various population parameters;
- Calculate confidence intervals for a population mean and proportion;
- Perform statistical tests of hypotheses involving population means and proportions.

1. Important Dates

26 Aug.	First Day of Classes
2 Sep.	Labor Day – NO CLASSES (University closed)
9 Sep.	Census Date
4 Nov.	Withdrawal Deadline
25 – 29 Nov.	Thanksgiving Holiday NO CLASSES)
9 – 13 Dec.	Final Exams

2. Course Content

2.1. **Textbooks.**
a. **(Required)** *Statistics: Unlocking the power of data, 3rd Edition* by Lock et al.; https://www.lock5stat.com/
b. **(Recommended)** *The 5 Elements of Effective Thinking* by E. Burger and M. Starbird[1]; ISBN 978–0691156668

2.2. **Academic Honesty.** *All work submitted must be your own.* If this is determined not to be the case, you will be referred to the Director of Judicial Affairs, with a consequence appropriate to the level of the infraction. You will be reminded of the UT Tyler Honor Code on every exam.
- Submitting the *homework* or *lecture notes* of another student is **plagiarism** and will result in an earned grade of 0 **for the category**, not just the assignment.
- Cheating on an exam will result in an F for the **course**.
- Posting copyrighted material to the internet without the prior written permission of the copyright holder is **illegal**.

2.3. **Civil Environment.** The free exchange of ideas is a central part of a university education. Class will be conducted in a polite and professional manner and I expect students to behave politely and professionally. *Disruptive behavior will not be allowed and is judged at my sole discretion.* Persistent incivility will result in your removal from the classroom.

2.4. **Canvas & Email.** You are expected to check Canvas at least daily, and also expected to check your university email. **All at-home work will be submitted via Canvas**.

2.5. **Personal Electronics.** Students are required to have access to a device capable of accessing Canvas and a device capable of scanning hand-written work for upload to Canvas. If you have a tablet device this is an optimal use for it, but tablets are an *expensive and unnecessary luxury*.

2.6. **Late & Missed Work.** Late work will not be accepted. Missed lecture notes and homework will count as 0s. A student who will miss one exam for a *documented, University-sanctioned* reason must notify me at least 2 weeks before the exam, and an alternative will be arranged. A student missing one exam due to documented illness or emergency is eligible to replace the missed exam grade with the grade from their final exam, but then is *unable to receive extra credit.* Students missing more than one in-class exam have failed the course and will receive an F. Students missing the final exam have failed the course and will receive an F.

2.7. **Final Exam Policy.** A student may earn at most one letter grade higher in the course than they earn on the final exam: *particularly, a grade of F on the final results in a grade of at most D in the course.*

3. University Policies

The University has many policies required to be included on syllabi. As these policies can change, please find the most recent version online.[2]

4. Course Structure

The course will generally cover one section of the book per class period; your grade will be determined by the weighted average of your **participation** (10%), your **class exams** (60%), and the **comprehensive final exam** (30%).

4.1. **Grade Scale.** Student letter grades will be recorded based upon their earned percentage points (PP). The grade scale will be no stricter than the standard:

PP Range	$[0, 60]$	$(60, 70)$	$[70, 80)$	$[80, 90)$	$[90, \infty)$
Letter	F	D	C	B	A
4.0 scale	$[0.0, 1.0]$	$(1.0, 1.5)$	$[1.5, 2.5)$	$[2.5, 3.5)$	$[3.5, 4.0]$

Canvas has difficulty displaying grades in any other method than percentages, so any grades given back by the instructor will include the actual grade as well as what that means on the percentage point scale.

4.2. **Final Exam, 30%.** It is important to demonstrate that you have some long-term ability to retain the information from the course, and so the final exam will be comprehensive. The times and dates of the final exam will be announced via Canvas. Questions on the final exam will be graded on the letter grade scale ($0 = F, 1 = D, 2 = C, 3 = B, 4 = A$) and the problem scores will be averaged to give an overall score on the 4.0 scale.

4.3. **Class Exams, 60%.** Throughout the semester we will also have comprehensive benchmark exams; these will appear on the Canvas schedule. The exam questions will be graded on the letter grade scale ($0 = F, 1 = D, 2 = C, 3 = B, 4 = A$) and the problem scores will be averaged to give an overall score on the 4.0 scale.

4.4. **Participation, 10%.** Participation will be marked each day as a 0, 1, or 2: 0 for not present or not participating, 1 for present and distracted or not participating, and 2 for present and participating. Participation will not be marked on exam days.

The easiest way to demonstrate to the instructor and *everyone around you* that you are not participating in class is to be using your phone or other electronics during class for purposes not directly related to the class.

In order to encourage participation, you will be required to scan and upload your hand-written course notes before 23:59 on the same day as class. On every day of class that is not an exam day, make sure you attend **on time**, take notes, and submit them via Canvas.

Your participation grade will be averaged and mapped through to the 4.0 scale for inclusion in your final overall grade.

Overall Grade. To compute your overall grade, find the following values:

$$\text{FE} = \text{Final Exam on 4.0 scale}$$
$$\text{CE} = \text{Average of Class Exams on 4.0 scale}$$
$$\text{P} = \text{Participation on 4.0 scale}$$

and substitute them into the formula

Overall Grade on 4.0 scale $= (0.3)\text{FE} + (0.6)\text{CE} + (0.1)\text{P}.$

4.5. **Tentative Schedule of Topics.** The schedule for the semester can be found on the main Syllabus page of Canvas, including all assigned due dates.

Notes

1. This inexpensive book can totally change how you view learning and I recommend it to anyone who thinks they might struggle with course material, whether or not they're in my classes.

2. Usually at `https://www.uttyler.edu/academic-affairs/files/syllabuspolicy.pdf`