

Summary Information

Class Meetings

- **Section 012**, TuTh, 12:30 — 13:50, RBN 4027
- **Section 014**, TuTh, 14:00 — 15:30, RBN 4019

Instructor Information

Info	Value	Office Hour	Location
Professor	S. J. Graves	MoWe 08:00 — 09:00	RBN 4011
Office	RBN 4011	TuTh 08:20 — 09:20	RBN 4021
Email	sgraves at uttyler dot edu	Also by appointment	RBN 4011
Dept. Phone	903.565.5839		

Preferred contact method is to use the Inbox in Canvas.

Important Dates: *24 August*, first day of classes; *08 September*, census date; *30 October*, withdrawal deadline; *07 — 11 December*, Final Exams

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.

Course Content

Textbooks

! Primary, not required

*Statistics: Unlocking the power of data*¹ by Lock et al. [1]; we will **not** be using WileyPLUS.

💡 Recommended

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.

*The 5 Elements of Effective Thinking*², by Edward Burger and Michael Starbird. [2]

Course Structure

The course content will be organized by Canvas modules.

Exams

There will be **2** in-class exams and a final exam.

⚠ Exam Dates

In-Class Exam Dates: 22 September, 27 October

Final Exam Dates:

Section	Weekday	Date	Time	Location
1342.012	Thursday	10 Dec.	12:30 PM — 2:30 PM	RBN 4019
1342.014	Tuesday	08 Dec.	2:00 PM — 4:00 PM	RBN 4027

¹Lock⁵ Statistics: <https://www.lock5stat.com/>

²5 Elements book: <https://press.princeton.edu/books/hardcover/9780691156668/the-5-elements-of-effective-thinking>

Grade Weighting

- Lecture notes will count for a total of 1/16 of the grade.
 - Lecture notes must be scanned into PDF and uploaded to Canvas by the end of the day of class (11:59 PM deadline).
 - If you miss class, it is **your responsibility** to obtain lecture notes from a class mate, rewrite them in your own handwriting, and upload them before the deadline.
 - Completed lecture notes will not be posted.
 - There are 28 class meeting days and therefore 26 lecture days; of these, 24 lecture notes will contribute to your grade.
 - Each day's lecture notes therefore contributes 1/384 of your final grade.
 - Lecture notes will receive 0, 2, or 4 points.
- Quizzes will count for a total of 1/16 of the grade.
 - There will be a quiz every non-exam day. It is to be completed at home, scanned to PDF, and uploaded to Canvas by the end of the day of class (11:59 PM deadline).
 - There are 28 class meeting days and therefore 26 quiz days; of these, 24 quizzes will contribute to your grade.
 - Each quiz therefore is 1/384 of your final grade.
 - Quizzes will receive 0, 2, or 4 points.
- Midterm exam 1 will count for 1/4 of the grade.
- Midterm exam 2 will count for 1/4 of the grade.
- The final will count for 3/8 of the grade:
 - the first part of the final (4 pages) will be questions suitable for test 1 and test 2; this will count for 1/8 of the final grade.
 - the second part of the final (8 pages) will be questions from last third of the semester and count for the final 2/8 of the grade.

$$\frac{1}{16}\overline{Q} + \frac{1}{16}\overline{N} + \frac{1}{4}E_1 + \frac{1}{4}E_2 + \frac{1}{8}F_1 + \frac{1}{4}F_2 = \text{Grade}$$

Scores will be posted on Canvas. After the end of the semester, final course grades will be available at <https://my.utt Tyler.edu>.

Letter Grade Requirements

- A final course grade of at least 1.5 is guaranteed to be at least a C;
- a final course grade of at least 2.5 is guaranteed to be at least a B;
- a final course grade of at least 3.5 is guaranteed to be an A.

Instructor Policies

Grading and Coursework Policies

Grading

All grades will be recorded on the 4.0 scale. Your grade will be computed on the 4.0 GPA scale by averaging the grades discussed above according to a weighted average.

Lower Bound	Upper Bound	Letter Grade
3.5	4.0	A
2.5	3.5	B
1.5	2.5	C
1.0	1.5	D
0	1	F

Late Work

Late work will not be accepted.

Missed Work

Missed work may be made up if due to either (1) a documented emergency or (2) a religious observance or University-sponsored activity.

1. Emergency

- Contact me as soon as it is safe or the situation is stabilized.
- We will work together.
- Only one exam may be made up due to a documented emergency.

2. Religious Observance or University-Sponsored Activity

- You *must notify me at least two weeks before the missed grade.*
- I reserve the right to give you different problem(s) than were given in class.
- You may take a quiz early, but it will not be the same quiz given to the class.
- Otherwise you have to make up the work on the next available business day.
- No make up will be given if more than 6 business days have passed since the date of the grade.

- Students who do not take the final exam fail the course.
- There will be no make up for the final exam: if you miss the final, you take a 0 for the grades and fail the course.
- Missed work not made up according to these policies earns a 0.

Exam Policy

- Students will place all belongings except those necessary for testing (TI-30X IIs, pens and pencils, etc.) in their backpack at the front of the room on test days.
- Students may not wear any sort of in-ear or over-ear headphones during exams.
- Students may not leave the exam; if you choose to leave the exam for some reason, you will turn in your exam before you do so.
- If you have a documented reason that provides you permission (under ADA) to leave the exam and return, you will need to schedule take your exam in the University Testing Center.
- Cell phones must be powered off and put in your backpack during testing.
- You will not be permitted to access any materials from your bag during an exam.**
- If you are observed touching a cell phone or other smart device during an exam, you will receive a grade of 0 for the exam.

D Grade Policy

- Final course grades of D will not be given.
- In order to pass the course, a student must earn final course grade of at least C.
- Any grade less than C will be reported as an F on MyUTTyler.

Final Exam Policy

1. A student who earns an overall F on the final exam will receive an F for the course.
2. This will be determined by totaling the point scores on the exam across both parts and computing the overall average.
3. If the overall average is below 1.0 (when graded on the 4.0 scale) or below 60% (when graded on the 100% scale) then the final exam grade is an F.

Academic Honesty

All work submitted must be your own. Violations will be processed according to the established guidelines of the department, college, and university. Violations of academic integrity include – but are not limited to – cheating, fabrication (also called falsification), or plagiarizing. A range of academic sanctions may be taken against a student who engages in academic dishonesty.



- Submitting the *homework, quiz, or lecture notes* of another student is **plagiarism**.
- Submitting work generated by “AI” (large language models, diffusion models, etc.) as if you had created it without the software tool is **plagiarism**.
- Finding the answers to assigned work online is *cheating* and submitting it as your own work is **plagiarism**.
- **Plagiarizing work will result in a 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**.

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.** Persistently bad behavior will result in your removal from the classroom.

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 as needed. Smart phones work for this.
- A TI-30XIIS calculator may be used, but is not required. Any other calculator is forbidden. They are widely available and inexpensive.³
- Everything else should be stowed in your backpack during class.

Use of AI

³<https://duckduckgo.com/?q=ti-30x+IIS>

i Required Statement

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in **UT Tyler's Honor Code**⁴. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

For this course, **AI is not permitted for use at all**. To best support your learning, you must complete all graded assignments by yourself to assist in your learning. This exclusion of other resources to help complete assignments includes artificial intelligence (AI). Refrain from using AI tools to generate any course content (e.g., text, video, audio, images, code, etc.) for an assignment or classroom assignment.

Canvas & Email

You are expected to check Canvas at least daily, and also expected to check your university email.

University Policies

The University has many policies required to be disclosed to students; as they frequently change, and in fact the location⁵ of the list of these policies frequently changes, it is better to read the **University Policies and Information** page linked from the Canvas course.

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- [1] Lock, Robin H., Lock, Patti Frazer, Lock Morgan, Kari, Lock, Eric F., and Lock, Dennis F., *Statistics: Unlocking the power of data*, 4th ed., John Wiley & Sons, Hoboken, NJ, 2025.
- [2] Burger, Edward B., and Starbird, Michael, *The 5 elements of effective thinking*, Princeton University Press, Princeton, NJ, 2012.

⁴<https://www.uttyler.edu/research/centers/ethics/honor-code/>

⁵<https://www.uttyler.edu/offices/academic-affairs/faculty-resources/syllabus-information/>