

MATH 1342.016: Statistics

Fall 2026

Instructor: Sara Cross

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Course Schedule: Section 016 meets TTh in CAS 158 from 3:30p to 4:50p.

Course Website: You **MUST** activate your Canvas account at <https://uttyler.edu/canvas>. All important documents will be posted on Canvas.

Office Hours

Tentatively, Thursdays from 2:00-3:20p in RBN 4021 (Math Learning Center). Or by appointment.

Textbook

Statistics: Unlocking the Power of Data, 3rd edition, by Lock, Lock, Lock Morgan, Lock, & Lock, ISBN #978-1119682165. Alternatively, you may use the 2nd edition of the same text. Either edition will be necessary for this course. Periodically throughout the semester, I will pull assignments from this textbook as well as several other statistics textbooks, but any assignments I pull from any other textbooks will be provided.

Course Description

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

Course Prerequisites

Appropriate score on SAT, ACT, or TSI. Most mathematics used in this course will be basic algebra.

Course Outline

Here is a rough weekly outline of the material that we hope to cover

Week	Material Covered
Week 1	Sections 1.1, 1.2, Quiz 1
Week 2	Sections 1.3, 2.1, Quiz 2
Week 3	Sections 2.2, 2.3, Quiz 3
Week 4	Sections 2.4, 2.5, Quiz 4
Week 5	Section 2.6, Exam 1
Week 6	Sections 3.1, 3.2, Quiz 5
Week 7	Sections 3.3, 3.4, Quiz 6
Week 8	Sections 4.1, 4.2, Quiz 7
Week 9	Sections 4.3, Quiz 8
Week 10	Sections 4.4, 5.1, Exam 2
Week 11	Sections 5.2, 6.1, Quiz 9
Week 12	Sections 6.1, 6.4, Quiz 10
Week 13	Sections 6.5, Intro to Probability , Quiz 11
Week 14	Thanksgiving Break
Week 15	Review for Finals and Exam 3
Week 16	Finals Week

Student Learning Outcomes

Upon completion of this course, students should be able to:

- Explain the use of data collection and statistics as tools to reach reasonable conclusions.
- Recognize, examine, and interpret the basic principles of describing and presenting data.
- Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics.
- Explain the role of probability in statistics.
- Examine, analyze, and compare various sampling distributions for both discrete and continuous random variables.
- Describe and compute confidence intervals.
- Solve linear regression and correlation problems.
- Perform hypothesis testing using statistical methods.

Attendance Policy

Attendance is not mandatory but will be necessary in order to pass the class. Students are responsible for all announcements made during the lecture.

Calculator Policy

You may use a scientific calculator such as a TI-30X-IIS on specified in-class assignments, up to discretion of the instructor. A majority of this course will be designed so that calculators are not necessary. No graphing calculators will be allowed.

Homework

Homework will be assigned once a week on Thursday. These assignments will be graded for completion and cover information from that week's lectures. **The two lowest homework grades will be dropped.** Homework will be done on paper and taken up the following Thursday. No late homework will be taken.

Quizzes

Weekly quizzes will usually be given each Thursday at the beginning of class and will take no longer than 15 minutes. Quizzes will typically cover material from the previous lectures and the information expected to be covered on each quiz will be posted on canvas. **The two lowest quiz scores will be dropped.**

Exams

There will be three midterm exams and a final exam:

- Exam 1: Thursday, September 24
- Exam 2: Thursday, October 29
- Exam 3: Thursday, December 3
- Final Exam (Cumulative): Thursday, December 10, 2:45pm-4:45 pm

Make-up and Retake Policy

Make-up exams will be available for documented absences, provided that you give sufficient warning in advance. Otherwise, make-up exams will be warranted given extenuating circumstances (i.e., illness, etc.) and will be up to the discretion of the instructor, and the student will have one week from the exam date to make up the missed exam or the exam will be graded as a zero. There will be no retakes on exams, however.

Extra Credit

Plus 5 points a week will be available to each student for the quiz or exam for that corresponding week for attending one office hour appointment either Tuesday, Thursday, or by appointment. No more than 5 points of extra credit will be given a week for attending office hours, but feel free to attend more than one office hour session a week as needed. Also, there will be no other extra credit opportunities given.

Grading

Scores will be posted on Canvas. Final course grades will be available on my.uttyler.edu. At worst, the final grading scale will be as follows:

- 90% or above: A
- 80%–89%: B
- 70%–79%: C
- 60%–69%: D
- Below 60%: F

The breakdown of your final course grade is:

- Homework: 10%
- Quizzes: 10%
- Midterm exams: 20% each
- Final exam: 20%

University Policies

- **September 8th: Census Date**
- **October 30th: Last day to withdraw from one or more courses.**

Refer to the University Policies and Information file on Canvas for more details.

Academic Integrity Policy

Student Standards of Academic Conduct Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student, or the attempt to commit such acts.

If a student is caught cheating in any way on a quiz or exam, the instructor will conclude examination for that student and the student will receive a 0 for that assignment. Repeat offenses will result in harsher consequences.

Artificial Intelligence 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. 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 is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy. Refer to the About This Course section of the UT Tyler Syllabus Module for specific information on appropriate use of AI in your course(s)

Contingency Plans

If face-to-face classes are suspended, quizzes and tests may be rescheduled. Online proctoring may be utilized, requiring high-speed internet, Zoom, a webcam, and a microphone.

Notice

All policies and information above provide a general guidelines for the course and may be amended throughout the course as needed at the discretion of the instructor. Any changes will be directly communicated to the students through email or an announcement in Canvas.