# Statistics, MATH 1342, Section 006
# Fall 2025

Instructor: Jacob Flores

**Office:** RBN 4021
**Email:** Jflores@uttyler.edu
**Course Schedule:** Section 006 meets MWF in RBN 3035 from 2:30 to 3:25p.
**Course Website:** You **MUST** activate your Canvas account at `https://uttyler.edu/canvas`. All important documents will be posted on Canvas.

## Office Hours

TBA

## Required Text

*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.

## 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 |
| Week 2 | Sections 1.3, 2.1 |
| Week 3 | Sections 2.2, 2.3 |
| Week 4 | Sections 2.4, 2.5 |
| Week 5 | Section 2.6, Exam 1 |
| Week 6 | Sections 3.1, 3.2 |
| Week 7 | Sections 3.3, 3.4 |
| Week 8 | Sections 4.1, 4.2 |
| Week 9 | Section 4.3, Exam 2 |
| Week 10 | Sections 4.4, 4.5, 5.1 |
| Week 11 | Sections 5.2, 6.1, 6.2 |
| Week 12 | Sections 6.3, 6.4 |
| Week 13 | Sections 6.5, Exam 3 |
| Week 14 | Thanksgiving Break |
| Week 15 | Intro to Probability |
| 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 all in-class assignments. No graphing calculators will be allowed.

## Homework

Homework will be assigned each class period. These assignments will not be taken up for a grade, however the material on the homework will be seen on quizzes that will be taken up for a grade.

## Quizzes

Weekly quizzes will usually be given each Friday unless it is an exam week. Quizzes cover material from homeworks given during the two previous class periods. The two lowest quiz scores will be dropped.

## Exams

There will be three midterm exams and a final exam:

- Exam 1: Friday, September 26th
- Exam 2: Friday, October 24th
- Exam 3: Friday, November 21st
- Final Exam: Wednesday, December 10th, 2:45p-4:45p

There will be a review session on the Wednesday before each exam.

## 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. There will be no retakes on exams, however.

## 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:

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

# University Policies

- September 8th: Census Date.
- November 3rd: 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

# 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.