

**Math 1343 – Statistics II
Summer 2026**

Professor: Dr. David Milan

Office: RBN 4001

Office Hours: 10am-11am, or by appointment

Email: dmilan@uttyler.edu

Office Phone: (903) 566-7210 (email is best)

Web: class page on canvas

Class Meeting Time: TBA

Required Text: *Statistics: Unlocking the Power of Data* (4th ed.) by Lock x5

Prerequisites: A grade of C or better in Math 1342.

Course Description: A second course in statistics covering a variety of topics in statistical inference including: inference of means, proportions, regression, and both one- and two-way analysis of variance. Additional topics may be included.

Learning Outcomes: Upon completion of this course, students should be able to do the following:

- Perform and interpret statistical analysis of collected data.
- Perform and interpret confidence estimation under various models.
- Describe the outcome of a hypothesis test in real-world terms.

Course Evaluation: Your grade will be based on:

Assignments	25%
Three Exams	75%

The grading scale will be no harsher than: 90% = A, 80% = B, 70% = C, 60% = D.

Important Dates:

July 10: Census date

July 29: Last day to withdraw from course

Tentative Schedule

- Review z- and t- distributions
- Review confidence intervals
- Review hypothesis testing
- Test 1
- 7.1 Testing goodness-of-fit
- 7.2 Testing for association
- 8.1 Analysis of variance
- 8.2 Pairwise comparisons and inference after ANOVA

- Test 2
- Review of scatterplot and correlation (2.4)
- Review of linear regression (2.5)
- 9.1 Inference for slope and correlation
- 9.2 ANOVA for regression
- 9.3 Confidence and prediction intervals
- 10.1 Multiple predictors
- 10.2 Checking conditions for a regression model
- 10.3 Using multiple regression
- Test 3

Homework: Homework problems will be assigned for each class meeting. The best way to succeed in this course is to work all of the recommended problems. Most students will encounter some difficulties with these problems. When that happens, visit my office hours or ask at the beginning of the next class.

Calculator Policy: Graphing calculators are not allowed on exams. You may use simple scientific calculators for help with arithmetic.

University Policies: See <https://www.uttyler.edu/offices/academic-affairs/files/syllabus-information.pdf> for these important University policies: UT Tyler Honor code, student rights and responsibilities, campus carry, UT Tyler a tobacco-free university, grade replacement and forgiveness, state-mandated course drop policy, student accessibility and resources, student absence for university-sponsored events, social security and FERPA, emergency exits and evacuation, and student standards of academic conduct.

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For this course, all graded work must be done without the assistance of AI. You are free to use AI as a study aid, for instance to generate practice problems and solutions.