

Statistics, Mathematics 1342, Section 011
Spring 2024

Instructor: Dr. Katie Anders

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Course Schedule: Section 011 meets MWF in RBN 4034 from 10:10-11:05 A.M.

Course Website: You MUST activate your Canvas account. To do so, go to <https://uttyler.edu/canvas>. This is also the address to login. If you are registered in the course, you already have access to the course. All important documents will be posted on Canvas.

Office hours: Tuesday & Thursday 9:00-10:30 A.M. and by appointment arranged by email

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

Course Outline: Chapters 1-6 of the text and other chapters, in part or in full, as time permits

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

- 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

Grading: Scores will be posted on Canvas. After the end of the semester, final course grades will be available on my.uttyler.edu. A final course grade of 90% is guaranteed to be at least an A, a final course grade of 80% is guaranteed to be at least a B, a final course grade of 70% is guaranteed to be at least a C, and a final course grade of 60% is guaranteed to be at least a D. All grades below D will be F. The breakdown of your final course grade into categories is given below.

Quizzes: 15%

Midterm exams: 20% each

Final exam: 25%

If you have any questions about the grading of a particular quiz or exam, you must contact me no more than one week after the day I return the graded assignment in class, whether you are present during that class or not.

Attendance: It is your responsibility to attend class. Attendance is mandatory. This means, among other things, coming to class on time and prepared. Before class begins, you should silence and put away cell phones and any other electronic devices. Students are responsible for all announcements made during lecture.

Homework: Homework will be assigned each class period. Working the homework problems thoroughly is an essential part of preparing for quizzes and exams.

Quizzes: There will usually be weekly quizzes given each Friday unless it is an exam week. Quizzes will usually be given at the beginning of the class period. If you are tardy on the day of a quiz, you do not get extra time on the quiz. Generally, the quiz will cover the material from the three previous class periods. The two lowest quiz scores will be dropped at the end of the semester.

Exams: There will be 3 midterm exams. A list of the test dates is given below. This list is preliminary and subject to change; at least one week advance notice of any change in test dates will be given.

Exam 1: Friday, February 9

Exam 2: Friday, March 1

Exam 3: Friday, April 19

Final Exam: Wednesday, May 1, 10:15-12:15 in the usual classroom

Cell Phones: Cell phones are not permitted in class. You must silence them and put them away before class begins. During quizzes and exams, your cell phone may NOT be in your chair or your lap.

Calculators: You are required to bring a calculator for use on quizzes and exams. I recommend a scientific calculator. The use of other electronic devices, including cell phones, during exams is strictly prohibited, so study accordingly.

Absences: Make-ups for **documented** absences that are **required** as part of a UT Tyler obligation (e.g. athletes participating in an event, students participating in a debate contest, etc.) or for religious observation will be granted. For all make-ups of this type, prior notification of at least one week and documentation are required. Other make-ups are granted only in extreme cases and at the sole discretion of the instructor. Prior notification is still required. **Under no circumstances will make-ups be granted without prior notification.** Leaving early for a break is NOT

grounds for a make-up, so please make your travel plans accordingly. In almost all cases, missed work will be assigned a 0. Keep in mind that the 2 lowest quiz scores will be dropped at the end of the semester.

Academic Integrity: Your work 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, or plagiarizing. A range of academic sanctions may be taken against a student who engages in academic dishonesty. Below are ideas related to academic integrity.

Resources you are encouraged to utilize in this course include the textbook and unassigned problems, notes from class, assigned homework problems, your fellow Math 1342 students, the Math Learning Center, and your instructor. Email is the best way to contact me. I reply to email from 9:00 A.M.–4:00 P.M. Monday–Friday.

A note about a resource NOT allowed in this course: while the internet may be a valuable resource, using it to unethically acquire answers for your work will be considered a violation of academic integrity and processed accordingly. Similarly, copying answers from other students' assignments, past or present, violates the idea that your work must be your own.

University Policies: Monday, January 29 is this semester's Census Date, the deadline for all registrations, schedule changes, and section changes. Monday, March 25 is the last day to withdraw from one or more courses. For university policies concerning Students' Rights and Responsibilities, Grade Replacement/Forgiveness, State-Mandated Course Drop Policy, Disability Services, Student Absence due to Religious Observance, Student Absence for University-Sponsored Events and Activities, Social Security and FERPA Statement, see the University Policies and Information file on this course's Canvas page.

Contingency Plans: If the entire university moves all classes to Zoom at any point this semester, there will be some changes to the syllabus. These are NOT options that an individual student may choose.

If face-to-face classes are suspended for a short time, quizzes and tests will be moved so that they can be taken when face-to-face class resumes. In this case, there will be a Canvas announcement giving the new dates for quizzes and tests.

If face-to-face classes are suspended for a long period of time in the middle of the semester, some quizzes and tests may be eliminated, combined, and/or rescheduled, and the weights used to compute course averages may be adjusted.

If the entire university is not returning to face-to-face classes after some point late in the semester, the following weights will be used to compute your course average. In this case, the final assessment will NOT be cumulative.

Quizzes: 15%

Midterm exams: 25% each

Final assessment: 10%

If all university classes must migrate online at some point, then online proctoring may be utilized. For online proctoring, students will need high speed internet, access to Zoom, a webcam, and a microphone. Please note that students can use university computer labs or the university library as a place to take an assessment being proctored online.