

**Statistics, Mathematics 1342, Sections 24
Spring 2023**

Instructor: Rajat Gupta

Office: RBN 4038

Email: rgupta@uttyler.edu

Course Schedule: We meets MWF in RBN 4032 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 2:00-4:00 in RBN 4038.

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.

Attendance: 5%

Quizzes: 10%

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: You will receive a homework every week and the submission will be on the final class of the next week, that is Friday. 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: Chapter 1 and 2

Exam 2: Chapter 3, 4, and 5

Exam 3: Chapter 5 and 6

Final Exam: The final exam will on April 26, 10:15 A.M.-12:15 P.M.

Cell Phones: Cell phones are not permitted in class. You must silence them and put them away before class begins.

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. E-mail is the best way to contact me. I reply to email from 10:00 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 23 is this semester's Census Date, the deadline for all registrations, schedule changes, and section changes. Monday, March 28 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 Information module on this course's Canvas page.