

# Math 1342 005 – Fall 2024, UT Tyler

**Lecturer:** Chris Chappa

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**Office:** Graduate Student Lounge inside the Mathematics Learning Center

**Office Hours:** By appointment. Student meetings may be conducted in person, over Zoom, by text, by phone call, or by FaceTime. Meetings can be held at any time mutually available to the professor and the student.

**Class Times:** MW 5:40 PM – 7:05 PM

**Classroom:** RBN 4027

**Required Text:** *Statistics – Unlocking the Power of Data, Third Edition*, Lock, Lock, Lock, Lock, and Lock. ISBN: 978-1-119-67416-0

**Prerequisite:** Satisfactory TSI completion or exemption

**Catalog Description of Course:** Measures of central tendency and dispersion, sampling, probability, testing of hypothesis, correlation and regression, and analysis of variance.

**Grades:** Your grade will be calculated according to the following weights.

Test average: 50%

Final exam: 20%

Quiz average: 20%

Project: 10%

**Calculators:** Calculators are required for this course. The recommended calculator is the TI-34. More advanced calculators can be used but are not necessary. Please do not use any pre-packaged statistical functions in your calculator. On tests, you will be asked to show all your work. Using such statistical functions on your calculator on a test will result in a noticeable loss of points.

**In-Class Exams:** There will be three exams at the conclusions of Chapters 2, 4, and 6.

**Homework and Quizzes:** Homework will be assigned daily. At the end of each week, a quiz will be available in Canvas over any homework assigned that week. Students will have two attempts at each quiz.

**Final Exam:** The Final Exam is comprehensive. The exact date and time will be announced later in the semester.

**Projects:** You are expected to complete one project this the semester. It will require the gathering and/or interpreting of data, organizing that data using Microsoft Excel, and presenting a written summary of your results. I will give you specifics for the project when the time arrives.

**Attendance Policy:** I do not have an official attendance policy. You are university students; you should know the value of attending class. I have seen students in the past try to attend sparsely, usually test days. I like to call those students “people who ended up having to take this class again”. Don’t be one of them. It’s a waste of your time and money to not attend class.

**Plagiarism and Academic Dishonesty:** If I have irrefutable evidence of academic dishonesty, I will follow through according to the student catalog, to the fullest extent I am allowed. Don’t mistake caution for weakness. I will not pursue allegations without rock-solid evidence. But with solid evidence, I will take action. You have been warned.

**Make-up Policy:** If you know that you will be away from campus for a required UT Tyler activity, let me know as soon as possible (preferably at the beginning of the semester). Missed quizzes can be made up in these instances.

**Computers, Phones, and Personal Electronic Devices:** My policy is as follows.

1. Computers, phones, tablets, and other personal electronic devices are allowed during class for note-taking and researching purposes only.
2. Students who wish to use such devices during class for texting, social media, video streaming, gaming, or any other purpose unrelated to class will be asked to leave. Such activity distracts the teacher and your classmates, thus wasting their time and money.
3. Do not listen to music during class. It is incredibly disrespectful. As such, no air pods, earbuds or headphones are allowed to be worn during class.

**Mathematics Learning Center (MLC):** The Department of Mathematics provides a free tutoring service for UT Tyler students taking lower level mathematics courses (Intermediate Algebra through Calculus II) in the Mathematics Learning Center located in RBN 4021. The MLC is generally open 8am-10pm Monday through Thursday and 8am-5pm on Fridays. During these hours students have access to free tutoring, access to computers for online homework and Mathematica labs, and have a place to work on homework. Upon entering the MLC students are asked for their student ID which will be scanned for attendance and held until the student wishes to be scanned out before leaving the lab. The MLC is a place to do work related to your mathematics courses - it is not a general access lab used for surfing the internet and checking email (this will be monitored by the tutors). As such, you should expect the tutors to help you with your homework. However, this doesn't mean that they remember how to do all of the different types of problems. Sometimes it will be necessary for the tutor to ask for your book to review some material before helping you. If a tutor cannot figure something out, then they will consult with a faculty member. Occasionally things go wrong in the MLC and we need to hear about it. If you feel that you are not getting the help that you need (tutors ignoring your requests for help or refusing to help due to ignorance of a subject) or if the environment is too distracting (loud talking, someone playing music, etc), then go to your instructor to report your problem. It is especially important to remember the day and time that the incident occurred. All complaints will be kept anonymous.

## Student Learning Outcomes:

By the end of this course, the successful Statistics student 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.
- Examine, analyze and compute confidence intervals and perform hypothesis testing using bootstrap and randomized sampling distributions.
- Describe and compute confidence interval using statistical methods.
- Perform hypothesis testing using statistical methods
- Solve linear regression and correlation problems.

## University Policies and Information

### Withdrawing from Class

Students may [withdraw](#) (drop) from this course using the [Withdrawal Portal](#). Withdrawing (dropping) this course can impact your Financial Aid, Scholarships, Veteran Benefits, Exemptions, Waivers, International Student Status, housing, and degree progress. Please speak with your instructors, consider your options, speak with your advisor, and visit the One-Stop Service Center (STE 230) or email [enroll@uttyler.edu](mailto:enroll@uttyler.edu) to get a complete review of your student account and the possible impacts to withdrawing. We want you to make an informed decision. UT Tyler faculty and staff are here for you and often can provide additional support options or assistance. Make sure to carefully [read the implications for withdrawing from a course and the instructions](#) on using the [Withdrawal portal](#).

Texas law prohibits students from dropping more than six courses during their entire undergraduate career\*. The six courses dropped includes those from other 2-year or 4-year Texas public colleges and universities. Consider the impact withdrawing from this class has on your academic progress and other areas, such as financial implications. We encourage you to consult your advisor(s) and Enrollment Services for additional guidance. **CAUTION #1:** Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). **CAUTION #2:** All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms. **CAUTION #3:** All UT Tyler Athletes must check with the Athletic Academic Coordinator before withdrawing from a course. **CAUTION #4:** All veterans or military-affiliated students should consult with the [Military and Veterans Success Center](#).

\* Students who began college for the first time before 2007 are exempt from this law.

### Final Exam Policy

Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the Dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members must maintain student final examination papers for a minimum of three months following the examination date.

## 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).*

## Incomplete Grade Policy

If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in place of a grade *only when all of the following conditions are met*: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all coursework or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor, and (c) the student presents these reasons before the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to meet all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has yet to be assigned within one year, then the Incomplete will be changed to an F, or NC. If the course was initially taken under the CR/NC grading basis, this may adversely affect the student's academic standing.

## Grade Appeal Policy

Disputes regarding grades must be initiated within sixty (60) days from the date of receiving the final course grade by filing a Grade Appeal Form with the instructor who assigned the grade. A grade appeal should be used when the student thinks the final course grade awarded does not reflect the grades earned on assessments or follow the grading scale as documented in the syllabus. The student should provide the rationale for the grade appeal and attach supporting document about the grades earned. The form should be sent via email to the faculty member who assigned the grade. The faculty member reviews the rationale and supporting documentation and completes the instruction section of the form. The instructor should return the form to the student, even if a grade change is made at this level.

If the student is not satisfied with the decision, the student may appeal in writing to the Chairperson of the department from which the grade was issued. In situations where there is an allegation of capricious grading, discrimination, or unlawful actions, appeals may go beyond the Chairperson to the Dean or the Dean's designee of the college from which the grade was issued, with that decision being final. The Grade Appeal form is found in the [Registrar's Form Library](#).

NOTE: The Grade Appeal Form is different from the Application for Appeal form submitted to the Student Appeals Committee, which does not rule on grade disputes as described in this policy.

### **Military Affiliated Students**

UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty member aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. The [Military and Veterans Success Center \(MVSC\)](#) has campus resources for military-affiliated students. The MVSC can be reached at MVSC@uttyler.edu or via phone at 903.565.5972.

### **Disability/Accessibility Services**

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), the University of Texas at Tyler offers accommodations to students with learning, physical, and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler/> and fill out the New Student application.

The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <https://www.uttyler.edu/disability-services>, the SAR office located in the Robert Muntz Library, LIB 460, email [saroffice@uttyler.edu](mailto:saroffice@uttyler.edu), or call 903.566.7079."

### **Students on an F-1 Visa**

To remain in compliance with Federal Regulations requirements you must do the following:

- Traditional face-to-face classes: Attend classes on the regular meeting days/times.
- Hybrid Classes: Attend all face-to-face classes convened by the instructor according to the schedule set for your specific course.
- Online course: Only one online course can count toward your full-time enrollment. Students are expected to be fully engaged and meet all requirements for the online course.

## **Academic Honesty and Academic Misconduct**

The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

## **FERPA**

UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements to protect your confidential information.

## **Absence for Official University Events or Activities**

This course follows the practices related to [Excused Absences for University Events or Activities](#) as noted in the Catalog.

## **Absence for Religious Holidays**

This course follows the practices related to [Excused Absences for Religious Holy Days as noted in the Catalog](#).

## **Absence for Pregnant Students**

This course follows the requirements of Texas Laws SB 412, SB 459, SB 597/HB 1361 to meet the needs of pregnant and parenting students. Part of the supports afforded pregnant students includes excused absences. Faculty who are informed by a student of needing this support should make a referral to the Parenting Student Liaison. NOTE: Students must work with the Parenting Student Liaison in order to receive these supports. Students should reach out to the Parenting Student Liaison at [parents@uttyler.edu](mailto:parents@uttyler.edu) and also complete the [Pregnant and Parenting Self-Reporting Form](#).

## **Campus Carry**

We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.

## Sections Covered in Textbook and Tentative Dates

8/26/24:	1.1 The Structure of Data; 1.2 Sampling from a Population
8/28/24:	1.2 continued; 1.3 Experiments and Observational Studies
9/2/24:	Labor Day (no class)
9/4/24:	2.1 Categorical Variables; 2.2 One Quantitative Variable: Shape and Center
9/9/24:	2.2 continued; 2.3 One Quantitative Variable: Measure of Spread
9/11/24:	2.4 Boxplots and Quantitative/Categorical Relationships
9/16/24:	2.5 Scatterplot and Correlation; 2.6 Linear Regression
9/18/24:	2.6 continued; Review for TEST 1
9/23/24:	TEST 1 (Chapters 1 and 2)
9/25/24:	3.1 Sampling Distributions
9/30/24:	3.2 Understanding and Interpreting Confidence Intervals
10/2/24:	3.3 Constructing Bootstrap Confidence Intervals
10/7/24:	3.4 Bootstrap Confidence Intervals Using Percentiles
10/9/24:	4.1 Introduction to Hypothesis Testing
10/14/24:	4.2 Measuring Evidence with P-Values
10/16/24:	4.3 Determining Statistical Significance
10/21/24:	4.4 A Closer Look at Testing
10/23/24:	Review for TEST 2
10/28/24:	TEST 2 (Chapters 3 and 4)
10/30/24:	5.1 Hypothesis Testing Using Normal Distributions
11/4/24:	5.2 Confidence Intervals Using Normal Distributions
11/6/24:	6.1 Inferences for a Proportion
11/11/24:	6.2 Inferences for a Mean
11/13/24:	6.3 Inferences for a Difference in Proportions
11/18/24:	6.4 Inferences for a Difference in Means
11/20/24:	6.5 Paired Difference in Means
11/25/24:	Thanksgiving Break
11/27/24:	Thanksgiving Break
12/2/24:	Review for TEST 3
12/4/24:	TEST 3 (Chapters 5 and 6)
12/11/24:	Final Exam