



East Texas A&M University
Math 1342.01E: Elementary Statistical Methods
COURSE SYLLABUS: Fall 2026, 3 semester credit hours

INSTRUCTOR INFORMATION

Instructor: Adam Bowden

Office Location: Education North 101

Office Hours: Monday/Wednesday 3:30pm – 4:30pm
 Tuesday/Thursday/Friday 2:00pm – 3:00pm (or by appointment)

Office Phone: 903-886-5972 (Math Department Office)

University Email Address: adam.bowden@etamu.edu

Preferred Form of Communication: Email

Communication Response Time: Within 24 hours, unless over a weekend, holiday, or during school closures.

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Text & Supplement (*optional): Textbook(s) Required: Statistical Reasoning for Everyday Life, 6th edition, by Bennett, Briggs, and Triola. Published by Pearson, 2018. ISBN-10 # 0-13-8030146

*** For this semester, we will be using the MathGPT platform for all homework assignments. This is being graciously provided as a free pilot for our class. No access code purchases are required. Information on how to access will be provided on D2L.**

Supplies Needed: A three-ring binder or folder for handouts. You may also want access to a scientific or graphing calculator, scissors, post-it notes, stapler, ruler, colored pencils, dice, coins, and a deck of cards.

Please also use only pencils (no pens) on all exams. You may have a need during the semester to print something, so you'll need access to printing supplies/a printer.

Calculators: A calculator is recommended during this course. Some material may be worked best with a graphing calculator. **I highly recommend a TI-83 or TI-84** be used when appropriate throughout the course. If you choose to use a different calculator, please note that the instructor *will not be a good resource for you to be able to use your calculator.*

Course Description:

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals, and hypothesis testing. Appropriate technology will be used. **Prerequisites: TSI complete/College-Ready.**

Student Learning Outcomes: Upon successful completion of this course, students will:

- 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 simple linear regression and correlation problems.
- Perform basic hypothesis testing using statistical methods.

Core Objectives:

- **Critical Thinking.** Students will be able to analyze, evaluate, or solve problems when given a set of circumstances, data, texts, or art. This common core learning objective will be assessed on the final exam using key questions that will fulfill these objectives.
- **Communication.** In written, oral, and/or visual communication, East Texas A&M University students will communicate in a manner appropriate to audience and occasion, with an evident message and organizational structure. This common core objective will be assessed using class activities with class discussion of statistical identities, graphs, and application problems.
- **Empirical and Quantitative Skills.** Students will be able to interpret, test, and demonstrate principles revealed in empirical data and/or observable facts. This common core learning objective will be assessed using in class discussion and projects, homework, and final exams.

COURSE REQUIREMENTS

Minimal Technical Skills Needed:

Students must have a minimal amount of technical skills to be successful in this course. Skills needed include, but are not limited to: using the online learning system (D2L) in MyLeo; using Microsoft Word, Excel, and PowerPoint, or equivalents; using a scanner or scan app; and the use of email.

Mission for College of Science and Engineering: Innovation and Discovery
Mission for the Department of Mathematics: Discovering the Keys to Success

Instructional Methods:

Instructional Methods: Instruction will include lectures, demonstrations and models, and some group and individual work, based on the time available throughout the semester. In particular, students will be expected to work on projects and activities that deal with statistical software (Excel or Google Sheets) and real-world applications of the material learned.

Student Responsibilities/ Tips for Success in the Course:

Attendance/Participation: I will be taking roll every class. All students are expected to be present, and attendance will be reflected in your Daily Work grade. In addition, students must participate in class each day to receive full points for this category. If you miss a class, come see me for any missed assignments.

Please do not approach me as I am beginning a class period, unless it is an emergency, so that we might start ON TIME. Please be in your seat and ready to work when class begins.

Class Participation: In addition, students must participate in class each day to receive full points for this category. In some instances, logging into D2L and completing assignments will also be used to determine part of your attendance. Students need to actively participate in class and/or online to receive credit.

Amount of weekly study: The “rule of thumb” for a math class is that for every hour of class time, you should spend approximately 3 hours of study time outside of the classroom. This study time may include a variety of activities, including but not limited to: re-organizing notes; working on homework; participating in a study group, tutoring, workshops, or Supplemental Instruction session; attending review sessions; and studying for quizzes and exams.

GRADING

Grading Policy:

Type of Assessment:

Portion of the Grade:

Daily Work (Attendance & Attendance-Based Activities)	5%
Daily Work (Homework, Quizzes, Tutoring, etc.)	15%
Daily Work (Projects/Activities)	5%
Tests (a total of 3 in-class exams)	50%
Comprehensive Final Exam	25%

Grading Scale: Grades will be assigned using the standard scale:

A = 90-100+, B = 80-89.9, C = 70-79.9, D = 60-69.9, F = 59.9 or below

*****According to the East Texas A&M catalog, Math 1342 CANNOT BE DROPPED if it serves as your first college-level math course.*****

Note: A grade of “D” is considered passing for this course, depending on your major, if this course serves only as your core math requirement, with no other math courses to build upon this course afterward.

Types of Grades/Assessments:

Daily Grades: The daily grade is composed of several categories of assessments, including attendance, participation, homework, quizzes, and REQUIRED tutoring.

Attendance/Participation: I will be taking roll every class. All students are expected to be present, and attendance will be reflected in your Daily Work grade. In addition, students must participate in class each day in order to receive full points for this category.

Homework: Homework will be assigned each week on D2L using the MathGPT platform. Be sure to make note each week of what is due and when. **Completing homework and turning it in on time is a must for success. Late homework is only accepted with an approved excuse.**

Quizzes: Both individual and group quizzes may be given occasionally. **In general, NO make-up quizzes will be given.** This class covers enough material that there is no time to be missed/away from the course that is a “good time”, and each quiz will be over material to be emphasized on exams. Quizzes will be averaged into your Daily Work grade. In addition, please ensure that your name is written on all homework pages so that, when graded, you will receive proper credit for your work.

REQUIRED Tutoring: Please note that all students in an entering college-level math class are required to attend 10 hours of tutoring at a campus-provided tutoring center. These include the Math Skills Center, TRIO, Supplemental Instruction sessions, library walk-in tutoring, Math department workshops, instructor Office Hours, and the University – provided online tutoring (currently through tutor.com), as well as any other official tutoring sessions offered by the University. **Unfortunately, private tutoring will not count for this requirement.**

Class Activities/Projects/Reflections: Problems in the course material that have interesting applications for the class and real life will be introduced periodically into the class discussion. Many of the projects will allow students to use their knowledge of the content from in-class discussions. Regular attendance will assist students with being able to participate in these activities and projects. These projects will vary in their scope and should be completed neatly and punctually.

Tests: Tests will be given after a complete chapter or subject area. These exams will be announced at least a week in advance. **CELL PHONES and other electronic devices must be turned off and stored out of the student's reach.** The only electronic device allowed during tests and quizzes is an approved stand-alone calculator, and only with the instructor's consent. Note: Calculators that solve problems for students, including but not limited to the TI-NSpire, TI-89, Casio Prizm, Casio Touch, or higher, are **NOT** allowed to be used for exams.

There will be THREE “chapter” exams which may consist of a variety of problems and short answer questions. However, students should expect the bulk of the questions on each test to be problem solving. Partial credit may be given on exams IF all work is neatly shown so that I can easily determine the student's mistakes. When pictures are drawn, students should be careful that figures are clearly marked and easily understood. Explanations should be explicit and understandable to the audience given. Items should NOT need interpretation if full credit is to be given.

Tentative test dates (although not in stone) are Week 4, Week 9, and Week 14. See the schedule below for details.

Exams will be administered in class. Students are expected to take exams in class with their instructor. Any exceptions should be worked out with the instructor in advance of the scheduled exam. Details will be provided when/if necessary.

Replacing a Low Test Grade: I realize that at times throughout the semester, emergency situations may arise that affect a student's performance on an exam or even prevent a student from attempting a test. However, in general, **make-up exams will NOT be given unless confirmed ahead of time and accompanied by a documented, University excused absence.** Therefore, I am willing to replace the student's ONE lowest exam grade with the student's grade on the corresponding portion of the final exam, provided the grade on that section of the final exam is higher. This provision will only be applied to ONE exam, so students should make every effort to attempt and be well-prepared for all exams.

Final Exam: Our final is a REQUIRED comprehensive exam. We will take the final exam according to the published Class Schedule/Final Exam schedule, which gives the time to have our final exam as **Monday, December 7, 10:30am – 12:30pm**. Do not expect a makeup exam for the final exam.

TECHNOLOGY REQUIREMENTS

Instructor Specific Technology Requirements:

- **Calculator:** A TI-83 or TI-84 calculator (or equivalent) is RECOMMENDED for this course.
- **Internet access is REQUIRED.** Projects, etc., may be given online. If you use the ebook, you will need to be able to access the site.
- **Word processing software is REQUIRED.** (Google Docs or Microsoft Word preferred/compatibility required)
- **Email access is REQUIRED.** Please utilize your East Texas A&M (____@leomail.tamuc.edu) email address.
- **Scanner:** A scanner or scan app MUST be used for uploading to paper assignments to D2L; **NOT just** the camera on your phone or tablet. Documents must be loaded as .pdf files, **NOT** as .jpg files. This allows for an easy upload and download and clean documents (no black outlines/edges, etc.) The department has experience with the free app Cam Scanner (a video will be available in the "content" page in D2L), but there are several apps available. Many are free, including the "basic" version of Cam Scanner, even if they ask for money... you should still be able to use the free version for this course. As long as it will load to MyLeo as a .pdf and there aren't a lot of dark edges, extra items in the background, or shadows on the pages, you should be okay.

LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements (click links to open):

- [LMS Requirements](#)
- [LMS Browser Support](#)
- [Zoom Video Conferencing Tool](#)

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@etamu.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, Starbucks, an ETAMU campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of D2L Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here: [D2L Brightspace Support](#)

Interaction with Instructor Statement

Students are expected to check their campus email regularly. Any questions or concerns may be addressed to the instructor's campus email. A response will be provided within 24 hours on weekdays. Emails over the weekend may take longer for responses.

It is vital that students be engaged and participating in class. Everyone is welcome to ask questions during class to further understanding of the concepts. Furthermore, I welcome any questions you may have after class.

Getting Help Outside of Office Hours

Free tutoring is available for students who need help with their math courses:

- The [Math Skills Center](#), located on the 3rd floor of the library, is open through the week. Hours can be found [at this link](#).
- [Undergraduate Tutoring Services](#) offers tutoring in the library, as well as Supplemental Instruction. Information found [at this link](#).
- Also, each student has available tutoring hours through the **online tutoring service**, tutor.com.
 - Each students receive 4 free hours at [Tutor.com](#). Use your MyLeo Log in and Password to access this. You can contact the instructor if you need additional free tutoring hours.
- In addition, [Mach III/TRIO Services](#), located in the Halladay Student Services building, Room 300, is available to students who meet certain criteria, such as being a first-generation college student, etc. Contact TRIO at 903-886-5833.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Syllabus Change Policy

The syllabus is a guide. Circumstances and events may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#) and [Code of Conduct](#). Students should also consult the [Rules of Netiquette](#) for more information regarding how to interact with students in an online forum.

Appropriate classroom behavior is required from those who attend this class. For the online format, this means treating classmates with respect in any online discussions or communication. If someone is not treating others in the class appropriately, they will be asked to change this behavior and can lose points for any related assignments. Serial disruptors will be asked to withdraw from the class.

ETAMU Attendance

"Students are expected to attend all class meetings for each course they are enrolled in. Students are responsible for understanding and complying with attendance requirements published in the [university catalog](#), the [Student Guidebook](#) and the course syllabus". For more information about the attendance policy please visit the [Attendance](#) webpage.

Academic Integrity

In order to ensure fairness and high academic standards, any actions which violate the principles of academic integrity through dishonesty or cheating are given serious consideration. In order to understand what constitutes a violation of academic integrity and the consequences of such behavior, the university's policies may be reviewed at this link: [Undergraduate Academic Dishonesty](#). Awareness of the following definitions is essential in order to know what represents academic dishonesty:

- **"Cheating:** Intentionally using or attempting to use unauthorized materials, information, notes, study aids or other devices or materials in any academic exercise. Unauthorized materials may include anything or anyone that gives a student assistance and has not been specifically approved in advance by the instructor."
- **"Complicity:** Intentionally or knowingly helping, or attempting to help, another to commit an act of academic dishonesty."
- **"Plagiarism:** The appropriation of another person's ideas, processes, results, or words without giving appropriate credit."

Any form of academic dishonesty which is observed will be noted. The student will be informed of why their behavior falls under this category and cannot be allowed. The event will then be reported under the guidance of university procedure. The university's policies regarding these matters are outlined at the link above. Depending on the severity of the circumstances, disciplinary action may be taken.

Please be aware that while your instructor does not suspect every student of attempting to engage in dishonest behavior or cheating, certain measures may be taken during the semester to encourage integrity, honesty, and learning. Some of these measures may include asking for calculators to be cleared and for all electronic devices (except for those approved) to be put away.

- [Undergraduate Academic Dishonesty University Procedure 13.99.99.R0.03](#)
- [Undergraduate Student Academic Dishonesty Form](#)

Students with Disabilities -- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities.

If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University

Velma K. Waters Library - Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@etamu.edu

Website: etamu.edu/student-disability-services/

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

East Texas A&M Supports Students' Mental Health

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit

www.etamu.edu/counsel

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to [Telus Health](#), a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



AI Use Policy

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

COURSE OUTLINE/CALENDAR

Topics Covered (tentative schedule):

- Week 0 (8/20 – 21): Syllabus, Introduction and Getting Started, Online/Scanning Activities
- Week 1 (8/24 – 28): What is Statistics? What is Data?
- Week 2 (8/31 – 9/4): Sampling Strategies & Activities & Types of Studies (Observational Studies and Experimental Design)
- Week 3 (9/7 – 11): Surveys & Validity of Studies, and Calculating Absolute and Relative Errors/Changes/Differences, Percents, etc.
- Week #4 (9/14 – 18): Review and **Exam 1**; Frequency Tables
- Week #5 (9/21 – 25): Graphical Summaries of Data, Misleading Graphs,
Week #6 (9/28 – 10/2): Project 1 Due; Collecting Data and Numeric Summaries of Data (mean, median, mode, range, intro to “normal”): Creating Box/Whiskers and Stem/Leaf,
- Week #7 (10/5 – 9): Variation and Standard Deviation; **Fall Break**
- Week #8 (10/12 – 16): Project #2 due; Statistical Paradoxes; “Normal” data and Distributions and Standard Deviation
- Week #9 (10/19 – 23): Review and **Exam 2**; Hands-on Probability (dice, cards, coins, spinners, etc.)
- Week #10 (10/26 – 30): Project #3 due; Theoretical vs. Empirical Probability – Unions and Intersections
- Week #11 (11/2 – 6): Wrap up probability; Correlation
Week #12 (11/9 – 13): Project #4 due; Simple Linear Regression and Line of Best Fit; Sampling Distributions/Sampling Distribution of the Sample Mean;
- Week #13 (11/16 – 20): Calculating Confidence Intervals; Hypothesis Testing/Inferences to the Population from the Sample; Review for Exam 3
- Week #14 (11/23 – 24): **Exam 3; Thanksgiving Holiday (Wednesday through Friday)**
- Week #15 (11/30 – 12/4) - REVIEW WEEK FOR FINAL EXAM
- Week #16 (12/7 – 11) – **Final Exam: Monday, December 7, 10:30am – 12:30pm** (NOTE: SPECIAL DATES AND TIMES!! Final Exam is NOT during the regular class period; it is a specific **TWO hour** time slot!!)

Any changes to this syllabus and/or schedule will be communicated directly to you in class by the instructor. You are responsible for being aware of any such changes.

*Remaining enrolled in this course constitutes acceptance of all policies contained in this syllabus. **Good luck and work hard!!***

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Mission for the Department of Mathematics: Discovering the Keys to Success*