

MATH 453.01W - Essentials of Statistics

COURSE SYLLABUS: FALL- 2025

INSTRUCTOR INFORMATION

Instructor: Dr. Pani Seneviratne, Professor of Mathematics

Office Location: Education North, 115

Office Hours: TR: 12:30 – 2:00 pm, W: 10:00 – 12:00 or by appointment

Office Phone: 903-886-5157 (Department of Mathematics)

Office Fax: 903-886-5945

University email: padmapani.seneviratne@etamu.edu

Preferred Communication: email

Response time: within 24 hours during weekdays

Class Location: Online

Class Time: D2L/Webassign

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

WebAssign (**Required**): WebAssign online homework system will be used during the class. Students will need to buy an access code to webassign. An interactive textbook is included with WebAssign. The class key will be provided during the first day of class.

Webassign Key:

Instructor	Section Name	Class Key Share the link or number with students to enroll
Padmapani Seneviratne	MATH 453, Section 01W	tamuc 8290 3316

Textbook (Optional): Text book will be included with WebAssign. Understandable Statistics: Concepts and Methods, 13th Edition, Charles Henry Brase, Corrinne Pellillo Brase, Cengage Learning.

Technology:

- Software: We may use a software such as Mathematica/Excel to illustrate descriptive statistics.
- Students may use a TI 83/84/89 or equivalent calculator for this course.

COURSE DESCRIPTION AND OBJECTIVES: Techniques of statistical applications concerning descriptive statistics, tests of hypothesis, regression and analysis of variance.

Prerequisite: One course in college mathematics.

STUDENT OUTCOMES: Upon successful completion of this course a student will:

- 1) Recognize and differentiate between key terms in probability and statistics.
- 2) Display data graphically and interpret graphs.
- 3) Compute and interpret empirical and theoretical probabilities.
- 4) Recognize, understand and analyze various probability distribution functions.
- 5) Calculate and interpret confidence intervals.
- 6) Perform hypothesis testing using statistical methods.
- 7) Discuss basic ideas of linear regression and correlation.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Access MyLeo online. Use a calculator and a computer. Access webassign.

Instructional Methods

Instruction is done by traditional lecture and power points slides. A software will be used to illustrate examples.

Student Responsibilities or Tips for Success in the Course

Attend all classes, Do all Homework and quizzes. Use office hours and Math Help Center.

GRADING

Final grades in this course will be based on the following scale:

2 Midterm Exams: 200 points Quizzes/HW: 100 points Final Exam: 100 points

Total: 400 points

A = 90%-100%

B = 80% - 89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

Exams: There will be two midterm exams and a comprehensive final exam for this course.

Exam 1: Thursday, September 25th 2025 (5th week).

Exam 2: Thursday, November 06th 2025 (11th week).

Final Exam: During final exam week. TBA.

Testing Center Information

Students are required to take exams at an in-person approved testing center. The on-campus testing center is free of charge for students. However, if a student choose not to travel to Commerce, faculty will work with them to allow face-face testing at an approved testing center at their location. Students are responsible for any testing fees associated with an external testing center.

Home work/Quizzes: You are encouraged to try all the homework problems. There will be announced quizzes.

TECHNOLOGY REQUIREMENTS

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

LMS Requirements:

https://community.brightspace.com/s/article/Brightspace-Platform-Requirements

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements

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, office service companies, Starbucks, a TAMUC 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 Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

https://community.brightspace.com/support/s/contactsupport

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

You are expected to attend all classes.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, 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

Appropriate classroom behavior is required to attend this class.

All cell phones must be put on silent during class.

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.
http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.as

http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.as px

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: https://www.britannica.com/topic/netiquette

ETAMU Attendance

For more information about the attendance policy please visit the <u>Attendance</u> webpage and <u>Procedure 13.99.99.R0.01</u>.

http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

<u>Undergraduate Academic Dishonesty 13.99.99.R0.03</u>

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

Graduate Student Academic Dishonesty 13.99.99.R0.10

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf

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
Waters Library- Room 162
Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: Office of Student Disability Resources and Services

http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServ

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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 University 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 <u>Carrying Concealed Handguns On Campus</u> document and/or consult your event organizer.

Web url:

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

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

ETAMU Supports Students' Mental Health

The Counseling Center at East Texas A&M University, 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

Al 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.

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COURSE OUTLINE / CALENDAR

Weekly Schedule

Weekly Schedule (Tentative)

Week 1: chapter 1/2 Week 2: chapter 2

- Week 3: chapter 3
- Week 4: chapter 3
- Week 5: chapter 4
- Week 6: chapter 4
- Week 7: chapter 5
- Week 8: chapter 5
- Week 9: chapter 6
- Week 10: chapter 6
- Week 11: chapter 7
- Week 12: chapter 7
- Week 13: chapter 8
- Week 14: chapter 9
- Week 15: chapter 10