

SYLLABUS Part II

Edison State Community College

MATH 125S Statistics

3 Credit Hours

Section/Term: MATHEMATICS-125S-003FS

Class Meeting Time: Tuesday/Thursday 7:30am-9:15am

Location: Rm 210

Required Items: Introductory Statistics, OpenStax
Scientific Calculator

Faculty: Theresa Grilliot

Masters: Mathematics Education, Western Governors University, 2023

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TENTATIVE WEEKLY SCHEDULE

Date	Topic	XYZ Due
25 Aug	Introduction 1.1 - Definitions of Statistics, Probability and Key Terms	
27 Aug	1.2 - Data, Sampling, and Variation in Data and Sampling 1.3 - Frequency, Frequency Tables, and Levels in Measurement	1A
1 Sept	1.3 - Frequency, Frequency Tables, and Levels in Measurement 1.4 - Experimental Design and Ethics	
3 Sept	2.1 - Stem-and-Leaf Graphs, Line Graphs, and Bar Graphs 2.2 - Histograms, Frequency Polygons, and Time Series Graphs	1B
8 Sept	2.3 - Measurements of the Location of Data 2.4 - Box Plots	2A
10 Sept	Lab 1	2B
15 Sept	Test 1 (Ch 1, 2.1-2.4)	
17 Sept	2.5 - Measures of the Center of Data 2.6 - Skewness and Mean, Median, and Mode	
22 Sept	2.7 - Measures of the Spread of Data	2C
24 Sept	3.1 - Terminology 3.2 - Independent and Mutually Exclusive Events	2D
29 Sept	3.3 - Two Basic Rules for Probability 3.4 - Contingency Tables	3A
1 Oct	3.5 - Tree Diagrams and Venn Diagrams	
6 Oct	Lab 2	3B
8 Oct	Test 2 (Ch 2.5-2.7, 3)	
13 Oct	4.1 - Probability Distribution Function (PDF) for a Discrete Random Variable 4.2 - Mean or Expected Value and Standard Deviation	
15 Oct	4.3 - Binomial Distribution	4A
20 Oct	6.1 – The Standard Normal Distribution (with a little from Ch 5)	4B
22 Oct	6.2 - Using the Normal Distribution	
27 Oct	7.1 - The Central Limit Theorem for Sample Means 7.3 - Using the Central Limit Theorem	6
29 Oct	Lab 6	7

Date	Topic	XYZ Due
3 Nov	Test 3 (Ch 4, 6, 7)	
5 Nov	8.1 - A Single Population Mean Using the Normal Distribution (Confidence Intervals)	
10 Nov	8.2 - A Single Population Means Using the Student t Distribution	8A
11 Nov	9.1 - Null and Alternative Hypotheses 9.2 - Outcomes and Type I and Type II Errors 9.3 - Distribution Needed for Hypothesis Testing	8B
17 Nov	9.4 - Rare Events, The Sample, Decision, and Conclusion 9.5 - Additional Information and Full Hypothesis Test Examples	
19 Nov	12.1 - Linear Equations 12.2 - Scatterplots 12.3 - The Regression Equation 12.4 - Testing the Significance of the Correlation Coefficient 12.5 - Prediction	9A, 9B
24 Nov	Lab 12	12
26 Nov	No Class – Thanksgiving	
1 Dec	Test 4 (Ch 8, 9, 12)	
3 Dec	Review	
8 Dec	Final Exam	

Calculators: A TI-83/84 is recommended for this class. Instructions are included in the textbook.

Method of Evaluation: Each homework assignment delivered via xyzhomework.com is worth 100 points. Each lab activity is worth 100 points each. The first four exams are worth 100 points each. There will be no make-up exams. All exams are on the syllabus and are expected to be completed on the due date. The final exam is cumulative and worth 100 points and will be completed in class on the last class day of the term. Failure to take the final exam results in an automatic failing grade. Adjustments may be made to this grading if necessary. Your grade will be determined by the following criteria:

- 25% XYZ (Homework)
- 5% Labs
- 70% Exams

Grades: Grades will be posted in Blackboard under Grades in Blackboard. Final grades in the course will be posted according to the following percentages of the total possible points per the weighting assigned.

- A – 90-100%
- B – 80-89%
- C – 70-79%
- D – 60-69%
- F – Below 60%

Last Day to Withdraw: 2 Nov 2026

XYZ: Homework will be completed using the online system at www.xyzhomework.com. Instructions for registering for XYZ can be found in the Announcements. XYZ is a web-based system and can be completed anywhere there is an internet connection. If you are having trouble with the system, on the log-in page of XYZ, you can select Support and email; they are typically very responsive. These assignments may not be submitted after the due date. DUE DATES WILL NOT BE EXTENDED! However, you may practice problems after the due dates to help you prepare for tests.

Lab Activities: Lab activities are to be completed during class time. They are found in the Blackboard class site in the appropriate units and should be submitted in class. For every day a lab is late, 10% will be deducted. You may email me the images of your lab if you will not be in class the day it is due so as to avoid the late penalty.

Make-up Exam Policy: All exams are listed on the syllabus and all students are expected to take the exams by the due date. **There will be NO re-tests, make-up exams or extra credit.** If there are extenuating circumstances, please contact the instructor. A decision will be made on a case-by-case basis.

Writing Policy: The process of expressing your ideas through writing, results in a deeper understanding and a more thorough learning experience. Writing assignments will, therefore, be used for the solidification and evaluation of learning. The exams, quizzes, homework, and class activities will require that you respond in writing to present a solution, derivation, or proof. All such work whether it uses standard or symbolic writing must be presented in a clear and logical form, and be reasonably free of spelling, grammar, and punctuation errors. All solutions to problems must be supported by appropriate steps to receive credit.

Communication: Students are encouraged to ask questions and are urged to seek help from me during class and tutoring hours. All students, faculty, and staff are required to use their Edison email account for ALL college communication. I typically try to respond within 24-36 hours to an email. All emails after Friday at 7pm will be responded to on the following Monday morning.

TESTING YOUR FAITH ACT POLICY

Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, <https://www.edisonohio.edu/services-support/registration-records>, located in "Forms" and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at <https://www.edisonohio.edu/services-support/student-resources>.

TUTORING SERVICES

All Edison State students are eligible to receive free tutoring and learning support services through our Tutoring Center. Available services include Edison State tutors, both online and in-person, covering a wide variety of courses including various levels of math and paper reviews, online tutoring through OhioLINK eTutoring, distraction-reduced study rooms, and the use of Tutoring Center resources including subject-specific and general study guides. For more information on tutoring services, visit the Tutoring Center in the Library, email us at tutoringcenter@edisonohio.edu, call 937-778-7959, or visit our webpage at <https://www.edisonohio.edu/tutoring-center/>

ARTIFICIAL INTELLIGENCE RESTRICTIVE POLICY

Students cannot use AI tools such as ChatGPT on assignments in this course. All assignments should be prepared entirely by the student. Developing strong competencies in this area will prepare you for a competitive workplace. Therefore, AI-generated submissions are prohibited and will be treated as academic misconduct.

ADDITIONAL SUPPORT SERVICES

For additional help, please click the ASSIST tab on Blackboard or the Edison State Student Resources folder within your course