

Math-125S-004FS Statistics

Instructor: **Li Zhang** MS in Economics, University of Wisconsin Milwaukee, 2005.
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Office Hours: By **appointment**

T 6:00 PM - 8:45 PM 8/24/2026 - 12/12/2026 West Hall, 210 Lecture

Textbook: Introductory Statistics, OpenStax

(Actual coverage will be updated in class!!!)

You must use the class key to enroll in this class: 54638

Week 1 8/25	Introduction 1.1 – Definitions of Statistics, Probability and Key Term 1.2 – Data, Sampling, and Variation in Data and Sampling 1.3 – Frequency, Frequency Tables, and Levels in Measurement 1.4 – Experimental Design and Ethics. 1.5- Experimental Design and Ethics.
Week 2 9/1	2.1 – Stem and Leaf Graphs, Line Graphs and Bar Graphs 2.2 – Histograms, Frequency Polygons, Times Series Graphs 2.3 – Measurements of the Location of Data
Week 3 9/8	2.4 – Box Plots 2.5 – Measures of the Center of the Data 2.6 – Skewness and the Mean, Median, and Mode
Week 4 9/15	E1 Due (Ch 1 and 2)
Week 5 9/22	2.7 – Measures of the Spread of the Data 3.1 – Terminology 3.2 – Independent and Mutually Exclusive Events
Week 6 9/29	3.3 – Two Basic Rules of Probability 3.4 – Contingency Tables 3.5 – Tree Diagrams and Venn Diagrams
Week 7 10/6	E2 Due (Ch 3)

Week 8 10/13	4.1 – Probability Distribution Function (PDF) for a Discrete Random Variable 4.2 – Mean or Expected Value and Standard Deviation 4.3 – Binomial 6.1 – The Standard Normal Distribution
Week 9 10/20	6.2 – Using the Normal Distribution 7.1 – The Central Limit Theorem for Sample Means 7.3 – Using the Central Limit Theorem
Week 10 10/27	E3 Due (Ch 4, 6, 7)
Week 11 11/3	8.1 – A Single Population Mean using the Normal Distribution (Confidence Intervals) 8.2 – A Single Population Mean using the student t Distribution 9.1 – Null and Alternative Hypotheses 9.2 – Outcomes and the Type I and Type II Errors 9.3 – Distribution Needed for Hypothesis Testing
Week 12 11/10	9.4 – Rare Events, the Sample, Decision and Conclusion 9.5 – Additional Information and Full Hypothesis Test Examples
Week 13 11/17	12.1 – Linear Equations 12.2 – Scatter plots 12.3 – The Regression Equation 12.4 – Testing the Significance of the Correlation Coefficient 12.5 – Prediction
Week 14 11/24	E4 Due (Ch 8, 9, 12)
Week 15 12/2	Final exam
Week 16 12/7	

Calculators: A TI-84 is recommended for this class. The TI-Nspire is also allowed.

Grading Scale: 90-100 A, 80-89 B, 70-70 C, 60-69 D, below 60 F

Grade Allocation:	HWs/Labs/Activities	160 pts (100pts+60pts)	40%
	4 Unit Exams	200 pts (50pts*4)	50%
	Final Exam	40 pts (40pts*1)	10%
	Total	400pts	100%

Homework: Problem sets for each section will be delivered online at **www.xyzhomework.com**. These assignments may not be submitted after the due date. **DUE DATES WILL NOT BE EXTENDED!**

Class Attendance: Class attendance and regular completion of homework in WebAssign are crucial to success in this class. A student who misses class is expected to study the content missed and ask questions as needed.

Lab Activities: Lab activities are to be completed during class time. If you do not come to class, you will not receive a grade for any assignments completed that day.

Make-up Exam Policy: All exams are listed on the syllabus and all students are expected to take the exams on the scheduled day and within the allotted class time. **There will be NO re-tests, make-up exams or extra credit.**

Final Exam: The final exam is cumulative and must be taken. If you fail to take the final exam, you will receive a failing grade for the course.

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 in class and are urged to seek help from the instructor during office hours. Additionally, the Learning Center in the library has multiple tutors available for extended hours to assist students with all topics in this course. The Learning Center is located in Edison's Piqua Campus Library. It is a free tutoring service that Edison State Community College provides for students. Check the Learning Center's website for hours of operation and tutor schedules, as these change semester to semester.

ACCOMMODATIONS /ACCESSIBILITY AND DISABILITY SUPPORT SERVICES POLICY

Edison State Community College will make reasonable accommodations for students with documented disabilities. If you believe you may need an accommodation based on the impact of a disability, contact the instructor privately with your self-identification letter. If you do not have a self-identification letter, contact Accessibility and Disability Support Services by emailing disabilities@edisonohio.edu or by calling 937.778.7850. Accessibility and Disability Support Services is located on the Piqua Campus in Room 160.

ADVISING SERVICES

Edison State's career pathway advisors are your partners in success. A career pathway advisor is the first advisor that you will meet with once you have made the decision to further your education. Together, you and your career pathway advisor will:

- Identify the right academic major to set you on your desired career path.
- Identify the courses you'll need to accomplish your academic goals.
- Help you develop a student plan tailored to your lifestyle and work schedule.
- Prepare you to navigate your first semester at Edison State.

You can find your career pathway advisor and faculty advisor information, including their email address, by logging into MyESCC and clicking on Student Planning. Go to Plan and Schedule and click on the Advising tab. You may also call 937-778-7850 to connect via phone call.

BOOKSTORE SERVICES

eCampus is Edison State's official bookstore and is located on the Edison State webpage, under "Resources," "Bookstore," or at <https://edisonohio.ecampus.com>. You can also access eCampus from the ESCC home page, under "Campus Services." Through eCampus, you can rent or buy books, access course materials, or purchase ESCC merchandise.

CAREER AND JOB SERVICES

Our Career and Job Services advisors are dedicated to helping students and alumni advance their professional development as they make career decisions, develop job search strategies, pursue experiential opportunities and secure employment. Career and Job Services also provides career assessments, career information, resume and cover letter help, job postings and resources, tips for interviewing and more. Visit <https://www.edisonohio.edu/Career-and-Job-Services/> for more information.

COMPUTERS

If you are working on campus, computers with internet access are available in the internet café. The Library and Tutoring Center has computers and printers available for your use.

LIBRARY SERVICES

The Edison State library is not only a comfortable place to study, we have an expansive collection of online resources available to help you with your research. Check out the library webpage here: <https://www.edisonohio.edu/Library/>. Libguides and short instructional videos are available to help you use these resources and can be found at: <https://libguides.edisonohio.edu/>. Please contact the library staff with any library questions you may have at library@edisonohio.edu, 937-778-7950, or stop in!

STUDENT WELLNESS CENTER SERVICES

Health and Wellness Services are available on the Edison State Piqua campus. Our Student Wellness Center provides resources to promote healthy physical lifestyle choices, as well as healthy mental health lifestyle choices, <https://www.edisonohio.edu/student-life/student-wellness-center>.

The Student Wellness Center can help you navigate obstacles that might cause issues or create anxiety during the school year. We have built a network of health professionals to support you and to create an environment open to discussion and nurturing to meet your needs continuously.

We have established partnerships with many local mental health providers. If you are struggling and need to speak with someone in person, please reach out to the Edison State Care Team, <https://www.edisonohio.edu/services-support/care-team#230548828-315143650>. If you are concerned about a student or colleague, please file a CARE Team form <https://www.edisonohio.edu/services-support/care-team> so that immediate assistance can be given.

STUDENT RESOURCE CENTER AND CHARGER STATION FOOD PANTRIES

Edison State Community College is proud to assist students needing help to obtain basic necessities. The Student Resource Center and Food Pantry is stocked with all kinds of grab-and-go snacks, meal supplies, toiletries, household needs, and community resources. Stop by and check out our Charger Stations, room next to the Cafeteria, Piqua, in the student lounge at Troy, in the Brooke-Gould Learning Resource Center at Eaton, and in Room 121 (for personal care items) and pantry items in the student lounge at Greenville. If you need additional assistance, please reach out at ResourceCenter@edisonohio.edu.

TECHNICAL SUPPORT SERVICES

For Blackboard Assignment issues, the Instructor should be the first point of contact

For Log-in or other technology issues:

There are several steps you can follow if you have issues logging in to Blackboard or Office.

During business hours:

- Password reset: Log onto office.com with your Edison email and follow the "forgot password" prompts.
- Reach out for help during regular business hours (9-5 Monday-Thursday, 9-4 Friday)
 - email to support@edisonohio.edu
 - call 937-778-8600 and ask for IT Help Desk

After hours:

- Password reset: Log onto office.com with your Edison email and follow the "forgot password" prompts
- Go to www.edisonohio.edu into the Resources tab and click "IT Help Desk" then click "Chat".
- Call 937-778-7957 and talk to the off-campus Blackboard company to get help

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/sites/default/files/2024-05/Testing_Your_Faith_Absence_Notification.pdf, 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/sites/default/files/2025-04/Student%20Handbook%20revisions%20April%202025.pdf>, page 19.

TITLE IX STATEMENT - Anti-Discrimination, Harassment and Bullying

It is the policy of the College to maintain a learning environment free from bullying, discrimination, sexual harassment or sexual violence. Title IX federal law protects students, employees and third parties with a relationship to the college. All Edison State Community College employees are required to report all knowledge of incidents that violate the Title IX policy to the Title IX Coordinator or Deputy Title IX Coordinator immediately. Student and employee confidential consultation is available through the Coordinator of Health and Wellness Services. Title IX Policy and procedure language as well as contact information for the Coordinator of Health and Wellness, Title IX Coordinator and Deputy Title IX Coordinator can be found at www.edisonohio.edu/TitleIX/.

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/>

ADDITIONAL SUPPORT SERVICES

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

The instructor may alter any part of this syllabus at any time.