MATH 1000 – 35Z Elementary Statistics (5 Units)

MW 4:00 – 6:15 PM Online, CRN: 28759

Instructor: Nahrin Rashid

Email: rashidnahrin@fhda.edu or Canvas Inbox

Office hours via Zoom: Monday 2:00 - 4:00 and 6:15 – 7:35 PM or by appointment

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Support: It can be frustrating when you need help, so please know that I am here to help you manage challenges and any frustration you may experience with the course. Please maintain close contact with me and I will do my best to support you.

How to reach out: If you have a question, the quickest and easiest way to contact me is via the Canvas inbox or email me rashidnahrin@fhda.edu. If you email me during my online office hours, I'll try to respond immediately. If you email me outside of my office hours, then I'll try to respond to you within 48 hours. From our course, click on "Inbox" in the left global navigation menu to access your Canvas conversations.

Tutoring Services:

On Campus in S-43 (MATH course tutoring only)

- Monday through Thursday 9am to 6pm
- Friday 9am-12:30pm
- Friday, Saturday and Sunday CLOSED

On Zoom Peer Tutoring

- Monday through Thursday 9am to 6pm
- Friday 9am-12:30pm
- Saturday and Sunday CLOSED

For drop-in tutoring outside these hours please use our online tutoring vendors (24/7 for most subjects)

Prerequisite: Intermediate Algebra (Math 109, Math 114, or Math 130) or equivalent. Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Course Description: Introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with an emphasis on understanding variation, collects information in the face of uncertainty, checks distributional assumptions, tests hypotheses, uses probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and uses appropriate statistical models to draw conclusions from data. The course introduces the student to applications in engineering, business, economics, medicine, education, social sciences, psychology, the sciences, and those pertaining to issues of contemporary interest. The use of technology (graphing calculators) will be required in certain applications. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced.

Course Content:

1. Displaying and Analyzing Data with Graphs

2. Descriptive Statistics

3. Populations and Sampling

4. Probability

5. Discrete Random Variables

6. Continuous Random Variables

7. The Central Limit Theorem

8. Point Estimation and Confidence Intervals

9. One Population Hypothesis Testing

10. Two Populations Inference

11. Chi-square Tests for Categorical Data

12. One Factor Analysis of Variance (ANOVA)

13. Correlation and Linear Regression

Textbook: *Introductory Statistics by Barbara Illowsky and Susan Dean, ISBN: 978-1-938168-20-8*

NOTE: This textbook is available to download for free (online or PDF) on:
http://openstaxcollege.org/textbooks/introductory-statistics/

Calculator: Required Graphing calculator (TI-83/TI-83 Plus/TI-84/TI-84 Plus)

Software: All homework and quizzes will be completed online using WebAssign, an internet-based platform. You must register on WebAssign using the class key provided in order to access the course materials. **Class key for WebAssign: deanza 9891 0639**

Student Conduct: Academic honesty is expected at all times. Always submit your own work. Copying or using someone else's work is considered plagiarism or cheating. Any student caught cheating on an exam will receive a zero and be reported to the Dean of the PSME Division.

Discussion on Canvas: Participate in weekly discussion boards on Canvas by posting and responding to questions. These discussions count for 5% of your grade.

Homework: Plan to log in to WebAssign daily. Homework will be assigned weekly and will have a due date. All homework must be submitted by 10:00 AM on the due date. You must set up an account by Friday, September 26 or you will be dropped from the class**.** If you have a homework problem you are not able to complete, you can send me your questions on WebAssign by clicking on "Ask my Instructor". At the end of the quarter your lowest homework score will be dropped. Homework will count for 15% of your term grade. Please do not procrastinate! You can request extension on the homework up to five times during the quarter.

Quizzes: Quizzes will be assigned weekly via WebAssign to test your understanding of concepts covered in class and online. Each quiz allows **two attempts** and must be completed within **one hour** once started. **No make-up quizzes** will be given. Quizzes count for **20%** of your grade.

Midterms: There will be **four proctored exams** during the quarter via WebAssign. Each exam has a **2-hour time limit** and covers material from lectures, online content, and the textbook. If you miss an exam, **no make-up** will be given, but your **lowest exam score will be dropped**. Midterms account for **40%** of your grade.

Final Examination: The **comprehensive final exam is required to pass the course**. It will be proctored on Wednesday, December 10, from 4:00 to 6:00 PM on Zoom. The final counts for **20%** of your grade.

Accessibility Accommodations: If you have a documented disability and need academic accommodations or assistance in case of an emergency, please contact me as soon as possible.

Important Dates

- The last day to add classes is October 5, 2025.
- The last day to drop for a full refund and without a "W" is October 5, 2025.
- Veterans Day Holiday - no classes, offices closed is November 11, 2025.
- Last day to drop classes with a "W" is November 14, 2025.
- Thanksgiving Holiday – no classes, office closed, November 27-30, 2025.
- Final Exam Week – December 8 -12, 2025.

Grade Breakdown

A+: 99% and above	B+: 87 - 89%	C+: 77 - 79%	D: 63 - 66%
A: 93 - 98%	B: 83 - 86%	C: 70 - 76%	D-: 60 - 62%
A-: 90 - 92%	B-: 80 - 82%	D+: 67 - 69%	F: < 60%

Tentative Schedule for Math 1000, Fall 2025

Week 1	Chapter 1
Week 2	Chapter 2, 3
Week 3	Chapter 4 Exam 1: Wednesday, October 8 (Chapter 1, 2, 3)
Week 4	Chapter 5
Week 5	Chapter 6
Week 6	Chapter 7 Exam 2: Monday, October 27 (Chapter 4, 5, 6)
Week 7	Chapter 8, 9
Week 8	Chapter 10 Exam 3: Wednesday, November 12 (Chapter 7, 8, 9)
Week 9	Chapter 11
Week 10	Chapter 12
Week 11	Chapter 13 Exam 4: Monday, December 1 (Chapter 10, 11, 12)
Week 12	Finals Week Final Exam: Wednesday, December 10 from 4:00 to 6:00 (Comprehensive)

This syllabus is subject to change at the instructor's discretion.

Student Learning Outcome(s):

• Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.
• Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
• Collect data, interpret, compose and evaluate conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

Office Hours:

      M   2:00 PM - 4:00 PM   Zoom