

Math 2227 - Elementary Applied Statistics - Fall 2026

Professor: Dr. Marc Ordower
Office: Martin 501
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Web Address: <http://faculty.randolphcollege.edu/mordower> (this will be changing)
Office hours: Monday 1:30 - 2:15
Tuesday 1:30 - 2:15
Thursday 12:15 - 12:45

And by appointment

Reference Texts: *Understanding Basic Statistics, 4th Edition* by Brase and Brase (Available for free on Ocean of PDF)

Introductory Statistics 2e by Illowsky and Dean (Available for free on open-stax.org)

Catalog Description: An introduction to statistics, including probability, binomial distributions, sampling theory, testing hypotheses, chi-square tests, and linear regression.

Course Objectives: In this course, the student will develop skill in applying basic statistical tools. She will also learn to think critically about the appropriateness of an application of statistics.

Help: I urge you to ask questions in class. In so doing, you will help yourself and your classmates. I also hope to see all of you at office hours over the course of the term. Don't forget that you can make an appointment if you can't make my regularly scheduled office hours.

Let me know if there are request for student tutors.

Web Page: Homework assignments, review sheets, and general course information will be posted on my web site at <http://faculty.randolphcollege.edu/mordower/math227/>

Grading: Your grade will be determined according to the following scheme.

Midterm I	Midterm II	Homework	Final Exam
20%	20 %	30%	30%

The dates (tentative) for the midterm exams are as follows:

Midterm Exam I - Monday, September 21
Midterm Exam II - Friday, October 9

Electronics Policy: During class, you may use the calculator app on your cell phone. You may not use a cell phone for any other purpose unless you have made arrangements with me in advance. Cell phones are not permitted in final exam rooms and must be placed in the wicker basket at the front of the room during midterms, and so you will have to arrange for a dedicated calculator for exams. Laptops and tablets may be used to take notes. All other uses of a laptop or tablet are prohibited. Do not use apps or other electronic aids other than your calculator to do homework or exams unless specifically approved by me.

Calculators may be used for homework and during exams, but you may **not** use the graphing facility of your calculator.

I need to know you understand the material. The use of AI will not be permitted in this course.

Accommodations Randolph College is committed to providing learning experiences that are accessible for all students, and will make reasonable accommodations for individuals with documented disabilities. If you have a learning difference or a disability mental health, medical, or physical impairment please contact Larvail Jones, Coordinator of Access Services, at ljones@randolphcollege.edu or 947-8132 for more information.

Academic Honesty: The Student Handbook describes the Honor Code and the Honor System. Randolph students take the following pledge: I pledge absolute honesty in my academic work and in all personal relationships at Randolph College. I will maintain the integrity of my word and I will respect the rights of others.

Realizing that these standards are an integral part of life at Randolph College, I assume my obligation to uphold this honor pledge. If at any time I fail to live up to my obligations of this pledge, I will report myself to the Chair of the Judiciary Committee. I will also ask others to report themselves for any infraction of this pledge. If you have questions about the Honor Code, it is your responsibility to ask them.

Plagiarism, an act that violates the Colleges Honor Code, is using another's words or ideas without properly acknowledging the source. Ignorance of documentation conventions is not a defense for plagiarism. See the Student Handbook for more information: www.randolphcollege.edu/studenthandbook. You can educate yourself even more by speaking about the topic with faculty and Writing Lab tutors.

It goes without saying that you should never pass off someone else's work as your own. During midterm and final exams, make certain that you don't view any paper besides your own, or allow anyone else to view your work. For homework pledge problems, using someone else's solution (whether that solution is from a classmate, a solution manual, or any other source) is prohibited. Past or current copies of final exams are intended to be confidential. If you find that they are not, please report it to me right away. They should never be photographed, recorded or transmitted in any way.

I encourage you to work and study together. It can be an effective way to learn mathematics. The admonition to work alone covers homework pledge problems and exam problems only. Feel free to discuss any other problems from any other sources. If you are not certain whether or not something is allowed, please ask.

Homework: Homework is an integral part of this course. Assignments may include practice problems and/or pledge problems. I encourage you to work together on practice problems. You may ask assistance from each other, tutors, or anyone else. Pledge problems must be done alone, though you may ask me for help if you get stuck. Only the pledge problems will be submitted and graded. Assignments will be considered late if not submitted by 9:30 AM on the weekday following the official due date. *You will be penalized at least 10% for a late assignment.*

Most homework assignments will be completed electronically, but a few may be completed on paper. Paper assignments should be neat, well organized, and multiple pages must be stapled.

Tentative Schedule:

Week of	Sections
August 27	1.1, 1.2, 1.3, 2.1
August 31	2.2, 2.3, 3.1, 3.2, 3.3, 4.1
September 7	4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.2
September 14	6.3, 7.1, 7.2, 7.3, 7.4, 8.1
September 21	Midterm I, 8.2, 8.3, 8.4, 9.1, 9.2
September 28	9.3, 9.4, 10.1, 10.2, 10.3
October 5	10.4, 10.5, 11.1, 11.2, Midterm II
October 12	11.3, 11.4, 12.1

Mandated Reporting: As instructors, one of our responsibilities is to help create a safe learning environment on our campus. We have a mandatory reporting responsibility related to our role as faculty members. It is our goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. We will seek to keep information you share private to the greatest extent possible. However, we are required to share information regarding sexual misconduct or information about a crime that may have occurred on Randolph's campus with the College's Title IX Coordinator, Jaclyn Beard (jbeard@randolphcollege.edu or 434-947-8031). We do this to make sure that you are able to get all the information and support you may need.

The Health Center and Counseling Center staff are not mandated reporters (counselingcenter@randolphcollege.edu or 434-947-8130). As such, they are not required to share information.