

MAT 222: Elementary Probability and Statistics II

M002 — Spring 2025

This is a MAT 222 Section 002 syllabus that supplements the MAT 222 course-wide syllabus.

Last updated: 1/9/2025

Instructor Information

Name: Jianqing Jia

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Office: Carnegie 400E

Office Hours: MoWe 5:05PM – 6:05PM

Class Information

Dates: Jan 13, 2025 – Apr 28, 2025

Time: MoWe 3:45PM – 5:05PM

Classroom: Carnegie Library 115

Instruction Mode: In person

Grading

The course grade is determined by the following components:

Homework	15%
Quizzes and Participation	10%
Two Midterm Exams	45%
Final Exam	30%

Grades and important announcements will be posted on Blackboard. Please check Blackboard regularly to ensure the grades have been recorded correctly. You should bring clerical errors to the instructor's attention within one week of the date an assignment was returned.

Grade Scale

Final grades will be given according to the following scale:

Raw Grade x	Letter Grade	Raw grade	Letter Grade
$93 \leq x \leq 100$	A	$77 \leq x < 80$	C+
$90 \leq x < 93$	A-	$73 \leq x < 77$	C
$87 \leq x < 90$	B+	$70 \leq x < 73$	C-
$83 \leq x < 87$	B	$60 \leq x < 70$	D
$80 \leq x < 83$	B-	$0 \leq x < 60$	F

Homework

The key to success in this course is to master the homework. Most of the homework sets will be done online using Achieve. If you need or desire an extension on any homework for any reason, contact the instructor in a timely fashion before the due time, as permitted by the need.

Homework will be worth 15% of your final grade.

Quizzes and Participation

There will often be a closed-book weekly or bi-weekly quiz. The problems on the quiz will be very close to lecture example problems or the homework. And the quiz problems could be similar to some of the exam problems.

There will be a few attendance checks in some lectures throughout this semester. You will lose some points for participation if you miss the attendance check without excused absence in advance. Should you need to miss a class for any reason, you are to contact the instructor in a timely manner.

Quizzes and participation will be worth 10% of your final grade.

Exams

There will be two mid-term tests during the semester, totally accounting for 45% of your final grade. There are no makeup tests. However, for excused absences with document (the only acceptable document that may be used for such a request is a written document with signature from a doctor/the dean's office/the police/other emergency authority.), the corresponding portion of the comprehensive final exam will be used in place of the missing test score. Tests will be scheduled in the time frame below. The exact exam date will be announced in a timely manner.

The final exam is comprehensive and accounts for 30% of the final grade. The MAT 222 final exam will be scheduled at some time on Monday, May 5, 2025 between 8:00am and 2:30pm ET. The precise time will be announced in class later.

STUDENTS MUST TAKE THE FINAL EXAM AT THE LISTED TIME. DO NOT MAKE PLANS TO LEAVE CAMPUS BEFORE 2:30pm ET ON MONDAY, MAY 5, 2025. THERE ARE NO PROVISIONS FOR TAKING THE FINAL EXAM AT ANY OTHER TIME.

Exam schedule summarized as follows:

Midterm Exam 1	Week of February 17, 2025
Midterm Exam 2	Week of March 31, 2025
Final Exam	Monday, May 5, 2025

Important Dates

Tuesday, January 21, 2025	Last day to add a class or to change a section
Monday, February 03, 2025	Last day to drop a class (no mark on transcript)
Tuesday, April 15, 2025	Last day to withdraw (WD mark on transcript)

Tips for Success

- It is absolutely essential that you understand how to solve the assigned homework problems and, more importantly, how and why the skills and techniques presented in the course are used in solving the assign problems. Exam questions will be similar to these problems.
- Ask questions about anything that is not completely clear. Don't hesitate to bring questions to your instructors during office hours.
- Every day, read and study the sections in the textbook covered in the lecture. Learning mathematics and statistics takes time! Read carefully and work through all the examples in complete detail. It can be helpful to try to work through an example on your own before reading the solution.
- Stay caught up. Mathematical concepts build on each other cumulatively and you need to stay on top of the material at every stage. If you are having difficulty, don't expect that the problem will take care of itself and disappear later. Contact your course instructor immediately and discuss the problem!
- Form a study group. Many students benefit from a study group to work through challenging problems and to review for exams. You should attempt the problems ahead of time by yourself and then work through any difficulties with your study partners. Explaining your reasoning to another student can help to clarify your own understanding.
- You should expect to work hard. Don't get discouraged if you find some of the material very difficult. Be persistent and patient! If you follow the above suggestions, your experience in this course will be a rewarding one.

Respect Policy

I respect your time:

- I will come prepared to help you understand the course material and prepare you for quizzes/exams.
- Communication is key: I cannot help you if I do not know what is going on.
- I am here to help you, this is your time, so let me know what I can do to help you succeed.
- If there is something that you would like me to do differently, please, let me know. I am happy to work with you to make class the best it can be.

Respect my time:

- Be on time to class.

- Pay attention when I am talking to you.
- Come to class prepared by doing the work and going to office hours when you need help.

Respect each other:

- Do not be disruptive. If you need to take a call or text someone, take it outside.
- Work with each other to find solutions. You learn more by helping each other.
- Allow one another to make mistakes. This is an important part of the learning process.
- Use respectful language when talking with one another.