

# MAT 222: Elementary Probability and Statistics II

## M004 — Spring 2022

This is a MAT 222 Section 004 syllabus that supplements the MAT 222 course-wide syllabus.  
Last updated: 1/31/2021

### Instructor Information

*Name:* Jianqing Jia  
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*Office:* Carnegie 400E  
*Office Hours:* TuTh 3:30PM – 4:30PM

### Class Information

*Dates:* Jan 24, 2022 – May 4, 2022  
*Time:* MoWe 2:15PM – 3:35PM  
*Classroom:* Carnegie Library 200  
*Instruction Mode:* In person

### Textbook

Textbook: *Introduction to the Practice of Statistics*, by David S. Moore, George P. McCabe, and Bruce A. Craig, 10th Edition. ISBN: 9781319244446.

Book companion site:

<https://www.macmillanlearning.com/studentresources/college/collegebridgepage/ips10e.html>

This course adopts the **Achieve** Online Learning System. You are required to purchase an account for this course. The access to the system is through Inclusive Access (Orange Instant Access). A separate instruction sheet will be provided on how to access it through your Blackboard account.

### Grading

The course grade is determined by the following components:

Homework	15%
Quizzes	10%
Participation	5%
Test 1	20%
Test 2	20%
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 must bring clerical errors to the instructor's attention within one week of the date an assignment was returned. You are also responsible for any announcements about changes to the course schedule, the exam schedule, or the course requirements.

## 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. Normally, the homework assignment for the week will be due next Thursday 11:59pm. 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

There will often be a closed-book weekly or bi-weekly online quiz. Quizzes will be made through Blackboard. Normally, the quiz will be due Thursday 11:59pm. The problems on the quiz will be very close to lecture example problems or the homework. And the quiz problems will be similar to the exam problems.

Quizzes will be worth 10% of your final grade.

## Participation

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.

Also, there might be some Minitab labs in this semester. The grade for the in-class lab assignments would count in participation.

Participation will be worth 5% of your final grade.

## Exams

There will be two mid-term tests during the semester, each accounting for 20% 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.

**TEST CORRECTIONS:** Students who did not get an A on the test are required to submit correct solutions to all of the missed or partial-credit-earned problems. Corrections will count for a specific quiz grade. If a student received an A on the previous exam, they will submit one assigned problem for that specific quiz. (This will ensure that everyone is able to get equally number of quizzes.)

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 Wednesday, May 11, 2022 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 WEDNESDAY, MAY 11, 2022. THERE ARE NO PROVISIONS FOR TAKING THE FINAL EXAM AT ANY OTHER TIME!**

Exam schedule summarized as follows:

Test 1	Week of February, 2022
Test 2	Week of April, 2022
Final Exam	Wednesday, May 11, 2022

### 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.