

MATH 1110: PROBABILITY/FINITE MATHEMATICS

Fall 2019 Syllabus

Instructor: Mark Schrecengost

Office Hours: Thu. 10-12, Fri. 1-2 and by appointment

Classroom: Rouss Hall 403

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Meeting Times: MWF 12:00-12:50

Prerequisites: Basic algebra and geometry skills.

Course Description: In this course we will cover the basic ideas of discrete mathematics including sets, counting principles and basic combinatorics. We will also study some basic probability theory including conditional probability, Bayes' Theorem, expectation, variance, and Markov chains.

Textbook: The textbook for this course is "Finite Mathematics and its Applications," Twelfth Edition by Larry Goldstein. We will cover chapters 5-8 and possibly parts of 9 and/or 11 depending on time.

You do **not** need to purchase a physical copy of the textbook. However, you will need to register for MyMathLab access. You can register using the course code Schrecengost43889 at <https://registration.mypearson.com/>. You will be prompted to enter some personal information. You can then use the access code HSCGFM-CHUBB-INANE-TOGUE-SPEIR-GIBES to get access for the semester. This code allows you access without needing to pay, so make sure you do not submit any payment. MyMathLab also includes an e-textbook for your reference.

Contacting the Instructor: You can always contact me via email, but it may take some time to respond. I will almost always answer within 1, day but it can sometimes take me longer depending on what I have going on. I am also unlikely to answer emails later in the evening, so it is best to ask any homework questions ahead of time and not wait until the night it is due.

Course Grade: Your course grade will be determined in the following way:

Online Homework	20
Written Homework/Quizzes	10
Midterm 1	20
Midterm 2	20
Final Exam	30
Total	100

The number of points you earn will be mapped to a letter grade as follows:

A+: [98, 100]	A: [93, 98]	A-: [90, 93]	B+: [87, 90]	B: [83, 87]	B-: [80, 83]
C+: [77, 80]	C: [73, 77]	C-: [70, 73]	D+: [67, 70]	D: [63, 67]	D-: [60, 63]

In borderline cases, your letter grade may be higher—the one assigned to the interval immediately above the one your point total lies in.

Online Homework: There will be weekly homeworks online through MyMathLab. Each problem will give you ten attempts to answer it correctly and immediate feedback. When you do online homework, you should attempt the problems as though they were on a test, writing out your work carefully before you try your answer. While guessing random numbers on MyMathLab might get you the correct answer, it will leave you unprepared to answer similar questions on the exams.

Quizzes and Written Homework: Throughout the semester we will have several quizzes or written homework assignments. These will count as the same in your course grade. These will give you some practice answering questions in a timed environment, as well as writing out solutions as you will need to on an exam. At the end of the semester I will drop the lowest of these scores.

Exams: There will be two midterms and a final exam in this course. The two midterms will be taken in class and will be 50 min. in length. The first exam is tentatively scheduled for Friday, March 1. This is two weeks before spring break, but any missed classes for snow or similar will most likely push this exam into the week before break. Keep this in mind when making travel plans as make up exams will not be permitted except in the most extreme circumstances. The second exam is tentatively scheduled for Friday, April 12. Conflicts with the midterms should be reported at least 7 days in advance. The decision to honor any conflicts will be at my sole discretion.

Our final exam will be May 2, from 7-10 P.M.

Make Up Work: If you will miss a quiz because of a UVA sanctioned event, you will be permitted to take a make up quiz as long as you inform me at least one class before and are able to take the make up quiz in a timely manner. Make up quizzes for non-UVA sanctioned events will not be permitted. This includes travel, illness, etc. You have one drop for the semester, so one missed quiz will not hurt your grade. If you know that you will miss several classes throughout the semester, for UVA or not, you must inform me so I am aware of the situation and we can make necessary arrangements.

Attendance and Classroom Etiquette: Regular attendance is expected as is full engagement in classwork activities. Please arrive on time, turn off your cell phone, and stay for the entire class period. You may not use any electronic device during class. (One exception: if you are using a laptop to run *WolframAlpha*.) You are expected to contribute to making the atmosphere in this class “friendly.” Freely share your ideas with members of your group and be encouraging and supportive as they are sharing theirs. Making unsuccessful attempts at solving problems is a natural part of the problem-solving process and ideas applied in unsuccessful work can often contribute to the discovery of a solution. Thus, when a “solution” presented within your group or to the class as a whole turns out to be flawed, it’s a learning experience for everyone that should be valued, not belittled.

Learning Needs: UVA is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning in this course, please feel welcome to discuss your concerns with me. If you have a disability, or think you may have a disability, you may also contact the Student Disability Access Center (SDAC), to request an official accommodation. You can find more information about SDAC, including how to apply online, through their website at <https://studenthealth.virginia.edu/sdac>. If you have already been approved for accommodations through SDAC, please make sure to send me your accommodation letter and meet with me so we can develop an implementation plan. Accommodations for test-taking (e.g., extended time) should be arranged at least 5 business days before an exam.

Calculators: Calculators will not be allowed on the quizzes, midterms, or finals.

Exam-grading Concerns: After receiving a graded exam, you have 1 week (7 days) to raise concerns about grading errors.

Honor Code: The Honor Code will be strictly observed in this class.

Important Dates:

Classes Start	Monday, January 14th
Last day to add a course	Monday, January 28th
Last day to drop a course	Tuesday, January 29th
Midterm Exam 1	Friday, March 1st
Last day to withdraw from a course:	Monday, March 18th
Midterm Exam 2	Friday, April 12th
Last day of classes	Tuesday, April 30th
Final Exam	Thursday, May 2nd from 7:00 to 10:00 p.m

All policies are subject to change at my discretion.