

Probability
MATH 351, section 001
Spring, 2021

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Mathematical Sciences
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This course is online only, on Blackboard.

Text: *Basic Probability Theory*, by Robert B. Ash, publ. Dover, 2008. We will cover most of the material in chapters 1 through 6, as well as some of the material in chapters 7 and 8.

Prerequisites: MATH 213 or 215 (Calculus III), with grade of C or above.

This course on probability covers the fundamental ideas of the subject, including discrete and continuous random variables, expected value and variance of a random variable, jointly distributed random variables, independence and conditional probability, and the central limit theorem.

Grades: There will quizzes and written work on most Mondays and Wednesdays. Much of that will contribute to your quiz/homework grade, which will account for approximately 80% of your final numerical course grade. The final exam will contribute the remaining 20%. Class participation (in the form of activity on the Problem Discussion Board, on Blackboard) may result in some augmentation of your course grade.

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|-------------------------|------------------------|------------------------|--------------|
| A ⁺ : 97-100 | B ⁺ : 87-89 | C ⁺ : 75-79 | F : below 60 |
| A : 93-96 | B : 83-86 | C : 70-74 | |
| A ⁻ : 90-92 | B ⁻ : 80-82 | D : 60-69 | |

The final exam is scheduled for Thursday, May 6.

Integrity is expected. GMU's revered honor system is over 150 years old - much older than GMU itself. Here is relevant policy concerning academic integrity in this class. On tests and quizzes, your work is expected to be exactly that: your work, done without assistance. During periods designated for quizzes and tests, the internet is not to be consulted for help, except for the class material that resides on Blackboard. During those times, there should be no communication with any human being other than Professor Lawrence about the material. However, on homework not contributing directly to your grade, outside assistance or assistance from other class members is condoned. (That said, homework is most helpful to you if you try extremely hard to work all the problems without any assistance,

not even the assistance of the answers in the back of the book. Attempt all the problems in this way, and only then look in the back!)

Contact the **Office of Disability Services** if you are a student with a disability and need academic accommodations. For more information visit <http://ods.gmu.edu> .

The **Math Tutoring Center** is currently operating online. Additionally, the math department maintains a list of **tutors** for hire. For information on these and other resources, visit the Department of Mathematical Sciences web page and click on *Tutoring*, under *Resources*.