

Math 322, Fall 2022
Section 001, CRN 70832
Advanced Linear Algebra

Time:	MW 10:30 - 11:45
Place:	Innovation Hall, Room 209
Instructor:	Walter Morris
Office:	Exploratory Hall, Room 4207
Phone:	(703) 993-1481
Office Hours:	MW 12:00-2:00
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Math 322 is a second course in linear algebra. The goal of the course is to study more deeply the mathematical structures encountered in Math 203 in order to appreciate their wide applicability. As stated in the GMU Catalog, topics covered by the course include abstract vector spaces, linear independence, bases, linear transformations, matrix algebra, inner product, and special topics. Reading and writing proofs will be emphasized by this course.

The prerequisites for the course are a C or XS or better in MATH 203 *and* a C or XS or better in Math 300 (formerly known as Math 290).

The text for the course is **Linear Algebra**, by Friedberg, Insel and Spence, Fifth Edition, published by Pearson (ISBN 9780134860244). We will cover most of chapters 1 - 7 and Appendices C and D. See the Course Calendar in the Syllabus section for details.

If we are ever not able to meet in person, there will be classroom sessions on Blackboard Collaborate Ultra. To access Blackboard Collaborate Ultra, click on "Collaborate Ultra for our Weekly meetings" in the main menu. Then go to "Course Room."

There will be two tests during class time, which we will tentatively schedule for September 28, and November 9. Each of the classtime tests determines 25% of the final grade.

The tests will be closed book. The Mason Honor Code applies. You may not receive help from any person or internet site on tests. If you receive help from another person on homework, please state who or what site helped you.

There is no class on Monday, Sept. 5 (Labor Day).

There will be no class on Monday, Oct. 10, but there will be class on Tuesday, Oct. 11. 10% of the grade comes from class activities. On most non-test days, there will be a short quiz or other activity to be handed in. I will drop the lowest 5 class activity grades.

Homework contributes 10% of the final grade. I drop the lowest homework grade. You will turn your homework in to Gradescope. There is a link to Gradescope on the left side of the Blackboard page.

I will post practice quizzes on Blackboard. These quizzes will be optional, but are designed to help you learn the material.

The final exam is cumulative. It will be given on **December 7, at 10:30 AM**. 30% of the final grade is determined by the final exam.

There is a discussion board in Blackboard site, which I may use from time to time. Please be respectful and mind the rules of Netiquette. You must carefully craft your communication in the online classroom to avoid misinterpretation.

On Blackboard I will include the videos from the time I taught the class online. You are not required to listen to these videos, but you may find them helpful.

If you are a student with a disability and you need academic accommodations, please notify me and contact the Office of Disability Services (ODS) at (703) 993-2474. All academic accommodations must be arranged through the ODS.

I check my e-mail often. Feel free to email me with questions. Be certain that you understand all of the homework assigned and all of the assigned reading, and that you ask questions in or out of class in order to clear up any problems you might have.

Other links:

Student rights under FERPA

Online Education Services, University Libraries

Writing Center

Counseling and Psychological Services