

## MATH 322 - Advanced Linear Algebra Fall 2018

**Instructor:** Gabriela Bulancea

**Office:** Exploratory Hall 4217

**Office Hours:** MW 1 p.m.- 3 p.m., or by appointment

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**Text:** *Linear Algebra, Fourth Edition*, by S. Friedberg, A. Insel and L. Spence, Prentice Hall, 2003. We will cover portions of Chapters 1 - 7 in the text.

**Prerequisite:** Math 290 and Math 203

**Broad purpose of the course:** Give a mathematically rigorous foundation to the principal topics of linear algebra, which include abstract vector spaces, linear independence, bases, linear transformations, matrix algebra, inner product. Students will have the opportunity to develop their ability to understand and write proofs in this field, and will become acquainted with some of its applications.

**Homework:** Problem sets will be assigned regularly throughout the semester. You are expected to solve all the assigned problems, although only some of these problems will be handed in and graded. You are encouraged to discuss the assigned problems with your classmates, but you will have to write your solutions individually.

**Class Tests:** There will be two class tests given during class time. There is a tentative schedule for the tests below. You are responsible for keeping up with all information announced in the classroom and on Blackboard. There will be no makeup tests.

**Test dates:**

Test 1                      Thursday, October 4

Test 2                      Thursday, November 8

**Final Exam:** The final will be on Tuesday, December 18 between 1:30 and 4:15 p.m. It will be a cumulative exam. The final exam is mandatory regardless of your class standing prior to that. You may replace your lowest test grade with your final exam percentage. In order for this to happen you must write a note above your name on your final exam.

**Grading:** Each of the class tests counts for 25%, the graded homework and class participation for 20%, and the final exam for 30%.

**UNIVERSITY POLICIES:** The University Catalog, <http://catalog.gmu.edu>, is the central resource for university policies affecting student, faculty, and staff conduct in university academic affairs. Other policies are available at <http://universitypolicy.gmu.edu/>. All members of the university community are responsible for knowing and following established policies.

**Honor Code:** It is expected that each student in this class will conduct himself or herself within the guidelines of the Honor Code. Among other things, this means that sharing information of any kind about exams or quizzes (either before or during the exam) will result at a minimum in a grade of zero for all parties involved. Violations will also be reported to the university Honor committee where further consequences such as probation or expulsion from the university may be incurred. See <http://academicintegrity.gmu.edu/honorcode> for a copy of the Honor code.

**Disability Services:** Reasonable accommodations are available for students who have a documented disability. Please contact Disability Services if you require accommodations: Office of Disability Services, Student Union Building I (SUB I), room 4205, Phone: 703-993-2474

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