

## Syllabus

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### MATH 203 Section 005 Syllabus

**Instructor:** Tim Sauer

**Office:** 4209 Exploratory Hall

**Hours:** TR 1:30 - 3 pm. These office hours are virtual, and will be an extension of the class Zoom session.

**Phone:** 703 993-1471

**Email:** [tsauer@gmu.edu](mailto:tsauer@gmu.edu)

**Web Page:** <http://math.gmu.edu/~tsauer>

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NOTICE 1: This section is restricted to BioEngineering majors. Please contact Dr. Claudia Borke ([cborke@gmu.edu](mailto:cborke@gmu.edu)) in order to register.

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NOTICE 2: Students in this section will meet Fridays 9:30-10:20 for computational projects in Matlab. It is required that students keep this time available in their schedule for the Friday meeting. Yogesh Karnam ([ykarnam@masonlive.gmu.edu](mailto:ykarnam@masonlive.gmu.edu)) will run the Friday sessions.



## 202070.76350 MATH-203-005 (Fall 2020)

meeting. Yogesh Karam (ykaram@mathsolvive.gmu.edu) will run the Friday sessions.

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**Prerequisite:** MATH 114 - Analytic Geometry and Calculus II

**Text:** *Linear Algebra and Its Applications*, by Lay, Lay, and McDonald, Sixth Edition, Pearson Education. NOTE: The fifth edition will work just as well.

It is important to have access to the textbook, for assigned reading and for access to homework exercises.

**Class schedule:** The schedule on Blackboard is the home for all class activities. Before each class meeting at 12pm TR, the student is responsible for reading the assigned sections of the text and viewing the assigned videos. Each video is connected to a Checkup, which consists of one question that tests your basic comprehension of the assigned section. Multiple guesses (up to 5) are allowed for the Checkups. The Checkup should be done before the class meeting. The class meeting time will not be for lecture, but will primarily be a time for questions on the material. The textbook exercises should be attempted before class, and completed eventually before the weekly quiz.

There will be Blackboard quizzes during the class meeting on most Tuesdays. The Friday sessions will consist of Matlab computer projects designed to be completed during class time. (Some may take a little longer.)

**Grading:** Weekly Blackboard quizzes (15 pts. each) and the Final Exam (50 pts.) will account for most of the final grade; the remainder will depend on the Friday Matlab projects (10 pts. each) submitted to Blackboard.

The weekly quizzes will normally be on Tuesdays, and must be taken during scheduled class time. The allotted time will be 1/2 hour.

**BONUS POINTS:** Special pandemic rules are in effect. One bonus point will be awarded for each correctly answered Checkup that is completed before the class meeting.



## 202070.76350 MATH-203-005 (Fall 2020)

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**Course Content:** The course will cover the following sections:

- Linear Equations 1.1 - 1.9
- Matrix Algebra 2.1 - 2.4
- Determinants 3.1, 3.2
- Vector Spaces 4.1 - 4.5
- Eigenvalues and Eigenvectors 5.1 - 5.3
- Orthogonality 6.1 - 6.5

**Test Dates:**

- Final Exam: Thursday, Dec. 10 at 10:30 - 1:15

**Computers:** We will be using Matlab to help with matrix calculations. There are computer Labs in Innovation Hall and the Johnson Center. For hours of operation of these labs and other locations see [Computing Labs Page](#). You may also access Matlab through your Mason VPN via the GMU [Citrix Virtual Lab](#).

There are many good Matlab tutorials on the web. For example, Mathworks has one at [http://www.mathworks.com/help/matlab/learn\\_matlab/desktop.html](http://www.mathworks.com/help/matlab/learn_matlab/desktop.html) Another good one for vectors and matrices is at <http://www.cyclismo.org/tutorial/matlab/>

**Honor Code:** The University Honor Code is to be followed. Sharing information of any kind about quizzes, exams or Matlab assignments will result in a grade of zero. Any violations will