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201870.82267 MATH-203-007 (Fall 2018)   Syllabus   Edit Mode is: ● **ON**

Syllabus

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MATH 203 Section 007 Syllabus

Instructor: Tim Sauer
Office: 4209 Exploratory Hall
Hours: TR 1:30 - 3 pm
Phone: 703 993-1471
Email: tsauer@gmu.edu
Web Page: http://math.gmu.edu/~tsauer

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

NOTICE 2: Students in this section will meet Fridays 9:30-10:20 in Exploratory 4107 for computational projects in Matlab. It is required that students keep this time available in their schedule for the Friday meeting. Adissa Silue (tsilue@gmu.edu) will be the Teaching Assistant for the Friday meetings.

NOTICE 3: Jiajing Guan will be the Learning Assistant for our class. She will hold open office hours for individual help at the following times: Tues. 4-5 (EXPL 4104), Tues. 5-6:30 (EXPL L506A), Thurs. 10:30 - 12 (EXPL 4104)

Prerequisite: MATH 114 - Analytic Geometry and Calculus II

Text: *Linear Algebra and Its Applications*, by Lay, Lay, and McDonald, Fifth Edition (DO NOT BUY THE FOURTH EDITION!), Pearson Education

Optional Study Guide: A Student Study Guide is available for this text.

Grading: A grade for the course will be calculated based on four midterm exams (100 pts each), weekly Matlab projects (total of 100 points), and a final exam (200 pts).

Homework: Homework problems will be assigned at the end of each class and reviewed at the next class meeting. Reading the sections of the text related to the problems will always be part of the homework assignment.

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 - 4.7
- Eigenvalues and Eigenvectors 5.1 - 5.3
- Orthogonality 6.1 - 6.5

Test Dates (tentative):

- Test 1 : Thurs., Sept. 13
- Test 2 : Thurs., Oct. 4
- Test 3 : Thurs., Oct. 25
- Test 4 : Tues., Nov. 20
- Final Exam: Thursday, Dec. 13 at 10:30 - 1:15

No make-up tests are given. If an emergency arises contact me ASAP.

Computers: We will be using Matlab to help with matrix calculations. Most of the work will be done during Friday meetings in the Exploratory 4107 computer lab. In addition, 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 the GMU Virtual Computing 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 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 exams or Matlab assignments will result in a grade of zero. Any violations will be submitted to the University Honor Committee.

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