

Math 203 Syllabus

SUMMER 2023

Instructor: Joseph Franks

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Office Hours: 1:30-3:00 M,T,W,Th

Office: Exploratory Hall Room 4311

Class Time:

M,T,W,Th: 10:30 am - 12:35 pm

Location:

Innovation Hall: Room 136

Credit Hours:

3

Textbook:

Linear Algebra and its Applications Lay, Lay, and McDonald 6th edition,
Pearson

Topics Covered

The following is a broad list of the general ideas and topics that will be covered in the course:

Systems of linear equations, linear independence, linear transformations, inverse of a matrix, determinants, vector spaces, eigenvalues, eigenvectors, and orthogonalization.

Course Grading Structure:

A+	A	A-	B+	B	B-	C+	C	C-	D	F
97-100	93-96	90-92	87-89	83-86	80-82	77-79	73-76	70-72	60-69	0-59

Course Structure:

The course grade will consist of quizzes, two midterms, and one final. The course will be out of 400 points. The weights of each component are listed below:

Quizzes	Midterm - 1	Midterm - 2	Final Exam
80 points	100 points	100 points	120 points

Quizzes:

There will be two quizzes a week for a total of nine quizzes, as there will only be one quiz the week of the final. Every Monday at 10 a.m. before class, including the first Monday of class, I will post a short quiz to the course balckboard page. It will be due Wednesday at 10am. On Wednesday at 10am before class, the second weekly quiz will be posted. It will be due Friday at 10am. The quiz will typically consist of two questions (they may be broken up into smaller parts sometimes) that assess the key computational skills and points of conceptual understanding from corresponding lectures. Quizzes will be submitted on gradescope. You may work together with other students on the quiz and are free to use course materials to complete the quiz. That being said, with the introduction of tools like chatGPT to the academic community, **copying work of other students or outside sources is not permitted and I reserve the right to ask students to explain their solutions to quiz problems in a private (one on one) setting, should I suspect academic dishonesty.** Each quiz will be worth ten points and there will be nine total quizzes for a total of 80 points, as **your lowest quiz score will be dropped.**

Midterms:

There will be two midterms held in our classroom tentatively scheduled for **Thursday June 1st** and **Monday June 12th**. The second midterm will emphasize the material starting from after the first exam but it is likely that material and skills corresponding to the first exam's material will be utilized on the second midterm. **On both midterms, students will be allowed to make up up to ten points for full credit. This will not be**

available on the final! Tentatively, the first midterm will cover sections 1.1-2.2 inclusive and the second midterm will cover sections 2.3-4.6 inclusive.

Final Exam:

The final exam is scheduled for Thursday June 22nd in our classroom with no make up exam. **If your final exam score is higher than one of your midterm exam grades, the grade for your final will be used to replace the grade of your lowest midterm exam.** As an example, if your midterm 1 score is an 90, and your midterm 2 score is a 65, and your final exam score is an 83, your final three exam scores would be: Midterm 1- 90, Midterm 2 - 83, Final 83. **The final exam is comprehensive and must be taken on the day it is scheduled**

Tentative Course Schedule by Topics:

Day	Sections Covered
Mon May 22	1.1,1.2
Tue May 23	1.3,1.4
Wed May 24	1.5
Thr May 25	1.7,1.8
Mon May 29	No Class - Memorial Day
Tue May 30	1.9,2.1
Wed May 31	2.2,2.3
Thr June 1	Midterm 1
Mon June 5	3.1,3.2
Tue June 6	4.1,4.2
Wed June 7	4.3,4.4
Thr June 8	4.5,4.6
Mon June 12	Midterm 2
Tue June 13	5.1,5.2
Wed June 14	5.3
Thu June 15	5.4
Mon June 19	No Class
Tue June 20	6.1 and 6.2
Wed June 21	6.3 final exam review
Thur June 22	Final

Makeup Exams:

If you are unable to make an exam, you must notify me ahead of time so that we can schedule a makeup exam. There are no exceptions to this rule

outside of emergencies, which require documentation as proof. Makeup exams will be taken in the Math Testing Center which is located on the fourth floor of Exploratory Hall. Again, a make-up exam will not be offered if a student fails to notify me ahead of time or fails to provide proof of an emergency.

Studying and Student Academic Resources:

The two quizzes a week WILL NOT BE ENOUGH practice to adequately prepare for exams. It is imperative to success in this course that you solve problems outside of class, and best practice is to do so everyday. The textbook problems are the best resource for exam preparation. Outside of my office hours, the Math Tutoring Center is open in the summer and is an excellent resource for additional help. It is located on the 3rd floor of the Johnson Center. I will post a practice problem set for each section that highlights the basics from that section. These are meant to be on the easier side and are there to help students struggling with the more basic aspects of a concept.

Summer 2023 University Schedule

It is the students responsibility to be aware of dates pertaining to the class such as add/drop deadlines etc. If you have question about such matters, please let me know and I will help or point you to someone who can.

Disability Accomidations

Any students using any disability related accommodations must arrange these accomidations through the Office of Disability Services. Any policies set in place by the Office of Disability Services or the Testing Center will be adhered to in this course.

Information Regarding Covid-19

All students are expected to follow university public health and safety policies regarding COVID-19. There will be a link below that directs you to a detailed description of these policies and procedures.

Academic Integrity

The George Mason Honor Code is in effect for this course **at all times**. A link to the honor code will be below. If questions arise with respect to the honor code or academic integrity, please ask me, so that I can provide you clarification or direct you to personnel that can.