

Instructor Shaun Ceci
Email sceci@memphis.edu
Office Dunn 145, MWF 11:15–12:15
Class Dunn 125, MWF 10:20–11:15
Website www.shaunceci.com/math

Basics

Philosophy

“The courses at the start of most mathematics programs work at having students apply formulas and algorithms, and imitate examples. Later courses ask for mathematical maturity: reasoning skills that are developed enough to follow different types of proofs, a familiarity with the themes that underly many mathematical investigations . . . , and an ability to do some independent reading and thinking. Where do we work on the transition? . . . Linear algebra is an ideal spot.”

Jim Hefferon, *Linear Algebra*

Prerequisites

Math 2110, or Math 1920 and one of Math 2701/2702 – i.e. a **solid** understanding of algebraic manipulation and an introduction to either elementary proofs or basic vector/matrix methods.

Materials

- Pencil with a good eraser (please don't use pens on exams)
- *Linear Algebra with Applications*, 7th ed. by Steven J. Leon
- Recommended alternative texts:
 - *Schaum's Outline of Linear Algebra*, 4th ed. by Lipschutz and Lipson
 - *Elementary Linear Algebra*, 8th ed. by Anton

Website

All handouts, homework assignments, and class announcements (such as cancellation of class) can be found on the course website (www.shaunceci.com/math) on the morning of the lecture.

Policies

Attendance

Attendance is vital if you are to be prepared for exams. If absent, you are responsible for obtaining lecture notes from another student. Frequent tardiness is unacceptable.

Noise

Personal conversations aside, I encourage everyone to ask questions and actively participate in the class. All electronic devices (cells, pagers, etc.) need to be turned off prior to class. The use of earphones during class is not permitted.

Cheating

Dishonest academic conduct on an exam will result in an **irreplaceable zero**. No exceptions.

Curriculum

Homework

Homework problems will be assigned daily to be completed nightly. Homework is not to be turned in, but select problems will be presented every Wednesday on the board by students. It is imperative that you work through the homework and ask questions in class if you're to be prepared for exams.

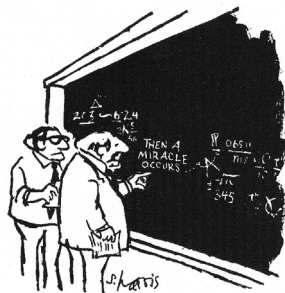
Exams

The use of calculators is allowed (no cellphone calculators), but the sharing of calculators is not. **Make-up exams will not be offered for any reason.** However, I will let the score percentage of your final exam replace that of your lowest exam. Students who finish the semester with a cumulative score exceeding 90% are exempt from taking the final exam.

Grading

There will be three in-class exams each worth 100 points and a comprehensive final exam worth 200 points. In addition, there will be 100 points earned for class participation measured by your involvement in discussions and homework presentations. Final grades will be calculated by

540 – 600 points	A	420 – 467 points	C
528 – 539 points	B+	408 – 419 points	D+
480 – 527 points	B	360 – 407 points	D
468 – 479 points	C+	Below 359 points	F



"I think you should be more explicit here in step two."

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You are responsible for your grade

- If you don't do your homework you have virtually **no chance** of passing.
- It is your responsibility to seek out additional help and to study as much as is necessary **for you**.

Struggling?

Ask questions in class!

Don't be bashful – if you're having trouble, then other students probably are as well.

Attend the weekly homework sessions

Having difficulties working the homework? I'll be hosting weekly homework sessions in my office directly following each class from 11:15 to 12:15. Bring any and all questions you might have.

Find a tutor

The University provides a free tutoring service in the Math Learning Center in Dunn 143. The MLC is open MTWR from 8:00 am – 7:00 pm and Friday from 8:00 am – 2:00 pm.

Find a supplemental source of instruction

Sometimes all it takes to grasp a concept is to hear it explained in a slightly different fashion. A good place to start is with Paul Dawkin's online Linear Algebra notes (<http://tutorial.math.lamar.edu>). They are very readable and quite thorough. Another fantastic resource is MIT's Open Courseware site (<http://ocw.mit.edu>) which has available a complete set of video lectures for Linear Algebra by Dr. Gilbert Strang.

Tentative Schedule

January 16	Syllabus, Intro to proofs		
January 19	No class	March 16	2.8
January 21	Intro to proofs (cont.)	March 18	Catch-up day
January 23	1.1	March 20	Exam 2 (Last day to W)
January 26	1.2	March 23	3.1, 3.2
January 28	1.2, 1.3 (Last day to drop)	March 25	3.3
January 30	1.3	March 27	3.3
February 2	1.4	March 30	3.4
February 4	1.4, 1.5	April 1	3.5
February 6	1.5, 1.6	April 3	3.5, 3.6
February 9	Catch-up day	April 6	4.1
February 11	Catch-up day	April 8	4.1, 4.2
February 13	Exam 1	April 10	4.2
February 16	2.1, 2.2	April 13	4.2, 5.1
February 18	2.2	April 15	5.1
February 20	2.2, 2.3	April 17	5.1, 5.2
February 23	2.3	April 20	5.2
February 25	2.4, 2.5	April 22	Catch-up day
February 27	2.5, 2.6	April 24	Exam 3
March 2	2.7	April 27	Key Theorem
March 4	2.7	April 29	Review (Last class)
March 6	2.7, 2.8	May 1	No class
March 9–13	No class	May 4	Final Exam (8:00 am)

