Math 2085 — Linear Algebra — Fall 2014

General Information.

Instructor:	Dr. Tom Cooney
Email:	`tcooney@lsu.edu`
Office:	447 Nicholson Hall
Class Webpages:	`http://moodle2.lsu.edu`
	`http://www.tcooney.com/math2085`
Lecture Room and Time:	101 Tureaud Hall at 10:30 a.m. on MWF
Textbook:	*Elementary Linear Algebra: Applications Version, 11th edition, by Anton & Rorres, ISBN: 978-1-118-43441-3*
Office Hours:	MWF at 9 a.m. or by appointment.

Grading. There are 500 points to earn in this course:

- 10 points for each homework—we will have 14 homework assignments.
- 10 points for each (10 minute long) quiz—we will have 4 quizzes.
- 60 points for each hour exam—there will be 3 hour exams.
- 140 points for the final exam.

Grades will be based on the following:

0–299	F	300–349	D	350–399	C	400–449	B	450–500	A

You can check your grades at `http://moodle2.lsu.edu`.

Homework. Homework assignments will be announced in class and also posted on Moodle and the course webpage. All homework should be neat, easy to read, and stapled (if more than one page). If you do not follow these instructions, I/the grader reserve the right to give you **no credit** for your work. Make sure to explain your work and to present it in a logical order. Late homework will not be accepted. Your homework grade will be based on a subset of the problems assigned; not every problem will be graded.

I encourage you to discuss the homework assignments with your classmates but each of you must hand in your own work, in your own words. You are not allowed to copy someone else's solutions. I may ask you to explain your answers to me in office hours if they are too similar to those of your classmates.

Learning mathematics takes time: time spent thinking about the ideas of the course and time spent practicing new techniques. Taking the reading assignments and homework assignments seriously will help you to do well on this course.

Exams/Final. We will have three in-class exams and a two-hour final exam. We will discuss their format in class. Calculators will not be allowed on any quizzes or exams. You are not allowed to have any phones or other electronic devices with you during quizzes or exams.

Hour Exam 1	Friday, September 19	10:30 a.m.
Hour Exam 2	Friday, October 17	10:30 a.m.
Hour Exam 3	Friday, November 14	10:30 a.m.
Final Exam	Thursday, December 11th	12:30–2:30 p.m.

Policies. If you have a personal problem (an illness, accident, or family crisis) which prohibits you from participating in any aspect of this course, please let me know as soon as possible and provide suitable documentation; we'll work together to give you the best opportunity to do well in this course. If you have some other valid reason for an excused absence, particularly if this will involve missing a quiz or exam, inform me *in advance* and provide me with suitable documentation.

If you require any accommodations in order to take this course, please notify me *as soon as possible* and provide suitable documentation. See `http://disability.lsu.edu` for further details.

I expect my students to uphold the highest standards of academic integrity. Cheating will result in charges of Academic Misconduct and subsequent punishment.

Course Overview. Systems of linear equations, vector spaces, linear transformations, matrices, determinants. Prerequisites: Math 1552 or Math 1553. Credit will not be given for both this course and Math 2090.

The material we will cover this semester will roughly correspond to the following chapters of the textbook:

- Chapter 1: Systems of Linear Equations and Matrices
- Chapter 2: Determinants
- Chapter 3: Euclidean Vector Spaces
- Chapter 4: General Vector Spaces
- Chapter 5: Eigenvalues and Eigenvectors
- Chapter 6: Inner Product Spaces
- Selected topics from Chapters 8 and 10.

And finally... I'm looking forward to getting to know you all. Come talk to me in office hours or email me to make an appointment. I'm here to help! **Have a great semester!**