

MAT 211 – INTRODUCTION TO LINEAR ALGEBRA
SUMMER 2015

Instructor's Information

Name: Fangyu Zou (fangyu.zou@stonybrook.edu)

Office: Graduate Students Office (S240-A in Math Tower)

MLC hours: Wednesday 11:00 am - 2:00 pm

Office hour:

There is no specific office hour. You can come at my MLC hours or other time by appointment in advance.

Course Description

This course offers an introduction to the well-developed theory of linear algebra. In the course we will focus mainly on computations (rather than on mathematical proofs). Some of the topics we will cover are: systems of linear equations, Gauss-Jordan elimination, matrices and determinants, vector (linear) spaces and linear transformations, bases, dimension, the Kernel-Image theorem, inner-product spaces, orthogonality, Gram-Schmidt orthogonalization, eigenvalues and eigenvectors, diagonalization.

Textbook

Linear Algebra With Application, by Otto Bretscher, the fifth edition, Pearson.

Important Dates

Observed Holidays and Breaks:

- Monday, May 25th (Memorial Day)

Make-up Dates:

- May 29th (Make up for Monday, May 25th)

Exam Dates:

- Midterm I: Thursday, June 4th 7:15 - 8:15 pm (During the last class of the second week)
- Midterm II: Thursday, June 18th 7:15 - 8:15 pm (During the last class of the fourth week)
- Final Exam: Thursday, July 2rd 6:00 - 8:15 pm (During the last class)

Graded Components

- **Homework** — 30% of the course average

There will a homework assignment due in class on most Thursdays. Homework assignment will be announced in class.

- **Midterm I & II** — each of 20% of the course average

There will be TWO closed book, closed notes midterm exams in class.

- **Final Exam** — 30% of the course average

There will be one closed book. closed notes final exam in class at the end of the term.

Your *course average* will be determined by a weighted average of the graded components above. Your *final grade* for the class will be based on your course average *and* on your participation.

Late Homework Policy

A student's homework assignment shall be considered late if it is not turned in to the instructor by the end of lecture on the due date. Late homework assignments may be turned in to the instructor by the end of the first lecture after the due date, but will be penalized 40%. Late homework assignments will not be accepted more than one lecture past the due date.

Missed Exam Policy

No make-up exams will be given. If a student misses a midterm exam, then the student's final exam grade will be substituted for the missed midterm. A student must sit the final exam at the scheduled time in order to receive a passing grade in the class.

Disability Support Services (DSS) Statement

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services (631) 632-6748 or

<http://studentaffairs.stonybrook.edu/dss/>

They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website:

[//www.stonybrook.edu/ehs/fire/disabilities/asp](http://www.stonybrook.edu/ehs/fire/disabilities/asp)

Academic Integrity Statement

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at

<http://www.stonybrook.edu/uaa/academicjudiciary/>

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.