

**INTRODUCTION TO LINEAR ALGEBRA (LECTURE 02) –
MAT 211: FALL 2017**

Topics and Text:

This course will focus mainly on computations (rather than on mathematical proofs). Some of the topics we will cover are: vectors in n -space; matrices and the algebra of matrices; abstract vector spaces and subspaces; linear transformations and operators – and their kernels and images; basis for a vector space and dimension; eigenvalues and eigenvectors; diagonalization of linear operators.

Our text for the course is *Linear Algebra with Applications*, fifth edition, by Otto Bretscher.

Teacher and Grader:

Teacher = Lowell Jones: office is in Math Tower room 2-211; email at lejones@math.stonybrook.edu; phone at 632-8248; office hours TBA.

Grader = Qianyu Chen: office is in Math Tower room S240A; email at qianyu.chen@stonybrook.edu; office hours TBA.

Homework

Homework is assigned for each week and should be handed in during your Tuesday lecture of the following week (unless otherwise stated in your homework assignment). Only your highest 10 Homework scores will count towards your final grade for this course. (See below for grading policy.)

The first homework assignment can be found by going to the date 8/28/17 on the course “Calendar” (on course Black Board website for your lecture) and clicking on “HW 1 and topics”. The second homework assignment can be found by going to the date 9/4/17 of the second week of classes and clicking on “HW 2 and topics”. Likewise all later home work assignments can be found by going to the Monday of the appropriate week on our course “Calendar” and clicking on “HW and topics”.

Exams There is one inclass midterm and a final exam, scheduled as follows:

Midterm: This will be an in class test on Thursday 10/19/17; please go to your usual lecture room at this time to take the midterm.

Final exam: This is sceduled for Wednesday 12/13/17 from 11:15am to 1:45pm. The room assignment for the final exam will be anounced on this website towards the end of the semester.

If you continue with this course it is with the understanding that you are able to take all of the exams at the scheduled times. If you miss an exam for reasons beyond your control, then discuss this as soon as possible with your teacher. Scheduling problems – such as another exam scheduled at the same time as your Mat 211 exam – are not considered an acceptable reason for missing an exam.

Grading Policy

Homework=30%,
Midterm=30%,
Final exam=40%.

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 at (631) 632-6748. They will determine with you what accomadations 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 got to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities>

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/commcms/academic-integrity/index.html>

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.

Weekly Schedule

week of 8/28-9/1: sections 1.1-1.3.

week of 9/4-9/8: 1.3,2.1. No classes on 9/4-9/5 (labor day break).

week of 9/11-9/15: sections 2.2-2.4.

week of 9/18-9/22: sections 3.1-3.2.

week of 9/25-9/29: sections 3.3-3.4.

week of 10/2-10/6: sections 4.1-4.2.

week of 10/9-10/13: sections 4.3,5.1.

week of 10/16-10/20: section 5.2; midterm on Thursday.

week of 10/23-10/27: go over test problems; section 5.3.

week of 10/30-11/3: sections 5.4-5.5.

week of 11/6-11/10: sections 6.1-6.2

week of 11/13-11/17: sections 6.3,7.1

week of 11/20-11/24: sections 7.2 ; no class on Thursday (Thanksgiving break).

week of 11/27-12/1: sections 7.2, 7.3.

week of 12/4-12/8: last week of classes; catchup and review.