

**INTRODUCTION TO LINEAR ALGEBRA (LECTURE 03) –  
MAT 211: FALL 2020**

**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; subspaces of  $n$ -space; linear transformations and operators – and their kernels and images; basis for a vector subspaces and their dimension; eigenvalues and eigenvectors; diagonalization of linear operators.

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

**Teacher:**

**Teacher = Lowell Jones:** office hours are online on Mondays and Wednesdays 11am-12:30pm; email at [lowell.jones@stonybrook.edu](mailto:lowell.jones@stonybrook.edu) .

**Grader = Ben Wu:** office hours are online, Monday and Wednesday 2pm-3pm, and in MLC on Friday 4pm-5pm; email at [ben.wu@stonybrook.edu](mailto:ben.wu@stonybrook.edu) .

**Homework**

Homework will be assigned each week and is due in the following week: homeworks will be posted under “Assignments” on our blackboard website, just download the pdf file containing the hw assignment, complete the homework problems on paper, then upload a pdf file containing your homework solutions onto blackboard before the due date.

**Exams** There will be one online midterm , sceduled during class time on Monday 10/5. . Our final exam will be online on Wednesday December 9 from 2:15pm to 4:45 pm.

Both of these exams will posted under “Assignments” on our blackboard website. Just download thee pdf file containing the test, complete the problems on paper, upload a pdf file containing your test solutions onto blackboard .

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 reasons 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 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: <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.

**Mat 211 satisfies STEM+ Objective:**

Mat 211 satisfies the Pursue Deeper Understanding in Science, Technology, Engineering and Mathematics objective by ensuring that students use the skills expected from their Versatility courses to study and practice them in greater depth, with further study applied to the area in which they are certified.

**Weekly Schedule**

**week of 8/24-8/28:** sections 1.1-1.2.  
**week of 8/31-9/4:** 1.3,2.1.  
**week of 9/7-9/11:** sections 2.2-2.3 (no class on 9/7).  
**week of 9/14-9/18:** sections 2.4,3.1.  
**week of 9/21-9/25:** sections 3.2-3.3.  
**week of 9/28-10/2:** section 3.4  
**week of 10/5-10/9:** midterm on Monday 10/5; section 5.1  
**week of 10/12-10/16:** 5.2-5.3.  
**week of 10/19-10/23:** sections 5.4  
**week of 10/26-10/30:** section 6.1-6.2  
**week of 11/2-11/6:** sections 6.3,7.1  
**week of 11/9-11/13:** sections 6.3,7.1  
**week of 11/16-11/20:** sections 7.1-7.2  
**week of 11/23-11/27:** no classes (thanksgiving break)  
**week of 11/30-12/4:** 7.2-7.3  
**week of 12/7-12/11:** 12/7 is last day of classes