

MAT 211 Syllabus, Fall 2021

Course description: Introduction to the theory of linear algebra with some applications; vectors, vector spaces, bases and dimension, applications to geometry, linear transformations and rank, eigenvalues and eigenvectors, determinants and inner products. May not be taken for credit in addition to AMS 210.

Credits: 3

SBC: STEM+

Class time and location: TuTh 11:30am – 12:50pm in Earth & Space Building 079.

Textbook: Otto Bretscher, *Linear Algebra with Applications*, Fifth edition

Course webpage: <https://you.stonybrook.edu/aerchenko/teaching/mat-211/>

Course Instructor: Alena Erchenko

E-mail: alena.erchenko@stonybrook.edu

Office: SCGP-510

Office hours (in-person in SCGP-510 and on Zoom): Tuesdays 1:30pm-3:30pm and by appointment

Math Learning Center hours (on Zoom): Fridays 9am-10am

Grader: Willie Rush Lim

Office: Math Tower 5-125B

Office hours (on Zoom - <https://www.math.stonybrook.edu/cards/limwillie-rush.html>): Tuesdays 10:00am-11:00pm and by appointment

Math Learning Center hours (on Zoom - <https://www.math.stonybrook.edu/cards/limwillie-rush.html>): Thursdays 9:00am-11:00am

Attendance: Attendance is strongly encouraged but not required. If you miss a class, you are still responsible for the material due, for learning all concepts covered, and turning in assignments given. Class participation (answering and asking questions during class) is encouraged. Class notes will be posted on Blackboard.

Blackboard: Some essential course information will be posted on Blackboard. You should have access to the course Blackboard page. Access to the instructor's Zoom office hours is through Blackboard Zoom meeting. Grades for assignments will be posted on Blackboard.

Gradescope: Submission of homeworks will be through Gradescope. You should have access to the course Gradescope page.

GRADING

Homework	20%
Midterm 1	25%
Midterm 2	25%
Final exam	30%

If it is beneficial to you, your lower midterm score will automatically be replaced with your final exam grade.

Homework: Homework will be assigned on a weekly basis and collected on Gradescope. Homework will be posted on the course webpage. Each week, four problems will be selected by the grader to be graded from the homework. It is in your best interest to complete all assigned problems since you will not know which problems will be graded in advance. Homework is considered due Thursdays. No late homework will be accepted. If you cannot upload your homework, then you must contact your instructor (Alena Erchenko) and arrange for your homework to be turned in before the deadline.

Your lowest score for homework will be dropped. You may work with other students on the homework, but you must hand in your own write-ups. **Stony Brook policy prohibits you from directly copying online sources.** Your solutions will be judged for clarity of formulation in addition to having the correct idea.

Exams: Two midterms will be given during the semester in class and a comprehensive final exam will be given during the final examination period. No books, notes, calculators, or other electronic devices may be used on the exams. Exams will be in-person (unless otherwise instructed by the university). Our exams are scheduled as follows.

Exam	Date	Time	Location
Midterm 1	October 7 (Thursday)	11:30am – 12:50pm	Earth & Space Building 079
Midterm 2	November 18 (Thursday)	11:30am – 12:50pm	Earth & Space Building 079
Final Exam	December 14 (Tuesday)	8:30 pm – 11:00 pm	Earth & Space Building 079

MAKEUP EXAMINATIONS: No alternative date will be given for the midterms or the final exam. If a student has a valid documented reason, such as illness or religious holiday, during examination times and informs the instructor, Alena Erchenko, beforehand, then the student is permitted to schedule a makeup examination with no penalty. A missed midterm must be made up within 7 days of the midterm. Students must be prepared to verify the reason for requesting the makeup by providing the proper document(s) upon request. Conflicts with other exams, personal business such as travel, employment, weddings, graduations, or attendance at public events such as concerts and sporting events are not valid excuses. Nor is forgetting the date, time or room of an examination a valid excuse. If a student misses an exam, does not have a valid

documented excuse, and does not inform the instructor, Alena Erchenko, then the student gets 0 points for the exam.

Questions, Problems, or Comments: If you have questions or concerns about the course, please consult your instructor, Alena Erchenko.

Student Accessibility Support Center Statement: If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, Stony Brook Union Suite 107, (631) 632-6748, or at sasc@stonybrook.edu. 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 the Student Accessibility Support Center. For procedures and information go to the following website: <https://ehs.stonybrook.edu/programs/fire-safety/emergency-evacuation/evacuation-guide-disabilities> and search Fire Safety and Evacuation and 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 is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. 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 Student Conduct and Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Until/unless the [latest COVID guidance](#) is explicitly amended by SBU, during Fall 2021 "disruptive behavior" will include refusal to wear a mask during classes.