

MATH 211 – INTRODUCTION TO LINEAR ALGEBRA – SYLLABUS

FALL 2023, LEC 03

Instructor: Donghao Wang

Email: donghao.wang@stonybrook.edu

Office: Simons Center for Geometry and Physics, Room 310

Office Hours: MW 1:00 pm – 2:00 pm or by appointments

MLC Hours: M 6:00 pm – 7:00 pm via zoom

Time: MW 4:00 pm – 5:20 pm

Location: Earth & Space 069

Grader: Miao Song

Email: miao.song@stonybrook.edu

Office: Math Tower 3-101

Office Hours: W 11:00 am – 12:00 pm or by appointments

MLC Hours: W 9:00 am – 11:00 am

Please read the entire syllabus carefully before continuing in this course. In particular, make sure that you are available for the final exam.

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.

Prerequisites: C or higher in AMS 151 or MAT 131 or 141 or coregistration in MAT 126 or level 7 on the mathematics placement examination.

Attendance: Strongly encouraged, but not mandatory.

Course Website: <https://sites.google.com/view/donghaow/teaching/fall-2023-math-211>. We will use Brightspace for announcements, but all other information will be posted on this website.

Course Textbooks: Linear Algebra with applications, by Otto Bretscher, Fifth Edition. I will also provide concise lecture notes on our course webpage.

Exam Dates: You must bring your University ID card to all exams. There will be a practice exam before each midterm and final.

	Date	Time	Location
Midterm I	Oct. 4th	4:00 pm – 5:20 pm	in class
Midterm II	Nov. 8th	4:00 pm – 5:20 pm	in class
Final	Dec. 11th	2:15 pm – 5:00 am	TBA

Date: August 26, 2023.

Grading Policy:

Homework	20%
Midterm I	20%
Midterm II	20%
Final	40%

Makeup Exams: Not available. If a student misses a midterm exam with documented evidence (for instance, a letter from Student Accessibility Support Center), then the student's final exam grade will be substituted for the missing midterm. A student must attend the final exam at the scheduled time in order to receive a passing grade in the class.

Homework: There will be 12 weekly homework assignments due every Monday in class (unless there is an exam prior to that week). The first assignment is due September 13th. **No late homework will be accepted** unless you have a strong excuse. **Two lowest scores for homework will be dropped.** Collaboration is encouraged, but you must submit your own write-ups. When you write up your homework, show your work (answers only will not be sufficient), use complete sentences and write legibly.

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, 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. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the

Undergraduate Class Schedule, and the Faculty- Employee Handbook.

Syllabus Revision: The standards and requirements in this syllabus may be modified at any time by the course instructor. Notice of such changes will be announced in class and changes to this syllabus will be posted on the course website.

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