

Earth&amp;Space 131

Monday, Wednesday 2:40-4:00pm

*This syllabus contains the policies and expectations that the instructor has established for this course. Please read the entire syllabus carefully before continuing in this course. These policies and expectations are intended to create a productive learning atmosphere for all students. Unless you are prepared to abide by these policies and expectations, you risk losing the opportunity to participate further in the course.*

**Instructor:** Jian Wang (jian.wang.4@stonybrook.edu)

Office: Math Tower 3-116

Office hours: Monday and Wednesday , 1:20pm-2:20pm

MLC hours:

**Course assistant:** Manju Prakash (manju.prakash@stonybrook.edu)

Office:

Office hours: TBD

**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

**Important Dates:** Exam Dates

- Midterm 1: March 2, in-class
- Midterm 2: April 13, in-class
- Final Exam: Wednesday, May 11, 11:15am-1:45pm

**Required Resources:**

- **Course Webpage:** TBD
- **Discussion board:** All course related questions should be posted on the backboard.

*<https://it.stonybrook.edu/services/blackboard>*

- **Textbook:** Linear Algebra, A Modern Introduction, by David Poole (4 edition) (Reading and homework assignments will be assigned out of this textbook. Make sure you can access a copy of the textbook.)

**Course resources:** All course resources will be posted on the blackboard. It is your responsibility to check the blackboard regularly. If I post something there I will assume that you will check it within 24 hours.

**Graded Components**

- Homeworks—30% of course average. You must write your solutions neatly and then upload them to the Blackboard. There will be a homework assignment due most weeks. Homework assignments will be announced on the course website. You are welcome to work together with your fellow classmates on the homework, provided that each person in a group is actively contributing. In particular, you must completely understand your solution and write it in your own words. You cannot show anyone your completed (written up) work. If you use an outside resource, such as an internet site, you should cite this in your solution. You should also declare all your collaborators.

- Midterm Exams—20% (each) of course average There will be two 80 minute midterm exams in class.
- Final Exam—30% of course average There will be one 150 minute final exam on the date scheduled by the university.

Your *final grade* will be determined by a weighted average of the graded components above.

**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 will not be accepted. **Missed Exam Policy** No make-up exams will be given. If a student misses a midterm exam with documented evidence, 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** 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

*[studentaffairs.stonybrook.edu/dss/](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.sunysb.edu/facilities/ehs/fire/disabilities](http://www.sunysb.edu/facilities/ehs/fire/disabilities)*

**Academic Integrity** 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

*[www.stonybrook.edu/uaa/academicjudiciary/](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.

### **Syllabus Revision**

The standards and requirements set forth in this syllabus may be modified at any time by the course instructor. Notice of such changes will be by announcement in class and changes to this syllabus will be posted on the blackboard.