

Earth&Space 001

Monday/Wednesday/Friday 10:30-11:25

Please read the entire syllabus carefully before continuing in this course. Be sure that you are available for the exams.

Instructor: Dr. Matthew Romney (matthew.romney@stonybrook.edu)

Office: Math Tower 4-101B

Office Hours: Monday 12-1pm/Wednesday 4-5pm, or by appointment

Course Description This is an introductory course in the fundamentals of mathematics and the writing of proofs, intended especially for beginning math majors. The main topics are logic, proof methods, set theory, combinatorics, functions and relations, and elementary number theory. There is considerable focus on writing. This course may not be taken for credit in addition to MAT 250.

Prerequisites: Level 4 on the mathematics placement examination or equivalent course or permission of the instructor.

Exam Dates

- Midterm 1: Wednesday, March 3, 10:30-11:25pm
- Midterm 2: Friday, April 2, 10:30-11:25pm
- Midterm 3: Friday, April 30, 10:30-11:25pm
- Final Exam: Monday, May 17, 8:00-10:45am

Resources

- **Course Webpage:** math.stonybrook.edu/~mromney/mat200.html
- **Textbook:** Peter J. Eccles, *An Introduction to Mathematical Reasoning: Numbers, Sets and Functions*, Cambridge University Press, 2007.

Graded Components

- **Homeworks** – 30% of total grade
- **LaTeX** – 4% of total grade
- **Three Midterm Exams** – 36% of total grade
- **Final Exam** – 30% of total grade

Homework

There will be a homework assignment most weeks. These will be listed on the course website. Homework may be submitted in person or on Gradescope.

Each week's homework assignment is due at the **beginning of Wednesday's lecture** (10:30am) of the following week. Homework may be turned in up to a week late for 70% of the points.

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. If you use an outside resource, such as an internet site, you should cite this in your solution.

LaTeX

LaTeX is a document preparation language used by most mathematicians and many other scientists to type their work. To encourage you to take advantage of this tool, you are required to do **two** homework assignments of your choice in LaTeX. I will provide resources for completing this task.

Exams

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.

Student Absences Statement

Students are expected to attend every class, report for examinations and submit major graded coursework as scheduled. If a student is unable to attend lecture(s), report for any exams or complete major graded coursework as scheduled due to extenuating circumstances, the student must contact the instructor as soon as possible. Students may be requested to provide documentation to support their absence and/or may be referred to the Student Support Team for assistance. Students will be provided reasonable accommodations for missed exams, assignments or projects due to significant illness, tragedy or other personal emergencies. Please note, all students must follow Stony Brook, local, state and Centers for Disease Control and Prevention (CDC) guidelines to reduce the risk of transmission of COVID.

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/

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

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/

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.

The instructor reserves the right to modify the standards and requirements in this syllabus. Notice of such changes will be by announcement in class, and changes to this syllabus will be posted on the course website.