



- Yu Li
- CV
- ▼ Teaching
  - MAT 303: Calculus IV with Applications
  - MAT 319: Foundations of Analysis**
- Sitemap

[Teaching](#) >

## MAT 319: Foundations of Analysis

Fall 2019

---

**Course Description:** A careful study of the theory underlying topics in one-variable calculus, with an emphasis on those topics arising in high school calculus. The real number system. Limits of functions and sequences. Differentiation, integration, and the fundamental theorem. Infinite series.

**Textbook:** *Robert G. Bartle and Donald R. Sherbert, Introduction to Real Analysis, 4th edition*

**Instructor:** Yu Li, Math Tower 4-101B. Office Hours: TuTh 12:00-1:00, Email: [yu.li.4@stonybrook.edu](mailto:yu.li.4@stonybrook.edu).

**TAs:** James Seiner, Ruijie Yang

**Class schedule:** TuTh 10:00-11: 20 Javits 103

**Homework:** Weekly problem sets will be assigned, and collected on Wednesday or Thursday recitation. The emphasis of the course is on writing proofs, so please try to write legibly and explain your reasoning clearly and fully. You are encouraged to discuss the homework problems with others, but your write-up must be your own work. Late homework will never be accepted, but under-documented extenuating circumstances the grade may be dropped.

Week	Lectures	Homework
9/30	3.4, 3.5	3.3: 4,7,10,11,13; 3.4: 3,9,12,16
10/7	3.6, 4.1, 4.2	3.5: 5,9,13; 3.6: 6,9; 4.1: 4,6,12
10/14	5.1,5.2	4.2: 3,5,10; 5.1: 4,11,15
10/21	5.2,5.3,5.4	5.2: 2,5,8,11; 5.3: 3,13,18
10/28	5.6, Second midterm	5.4: 2,3,5,14
11/4	5.6,6.1	5.6: 1,5,9,12; 6.1: 4,7,9,12
11/11	6.2,6.3	6.1: 13,14,15; 6.2: 1,4,6,11
11/18	6.4	6.3: 3,8,11; 6.4: 1,10,14,15
11/25	7.1, Thanksgiving	7.1: 1,2,6,8,15
12/2	7.2, 7.3	

**Exams:** The second midterm exam is in-class on **Oct. 31**. The final exam is on **Dec. 19, 8:00 am-10:45 am** and the room is **Javits 103**.

If you register for this course you must make sure that you are available at these times, as there will be **no make-ups** for missed exams.

**The course grade** is computed by the following scheme:

Homework: 20%

Midterm Test I: 20%

Midterm Test II: 20%

Final Exam: 40%

**Help:** The [Math Learning Center](#) (MLC) is located in Math Tower S-235, and offers free help to any student requesting it. It also provides a locale for students wishing to form study groups. The MLC is open 9 am-7 pm Monday through Friday. A list of graduate students available for hire as private tutors is maintained by the Undergraduate Mathematics Office, Math Tower P-143.

---

### **Disability Support Services (DSS)**

**If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room 128, (631) 632-6748. They will determine with you what accommodations, if any, 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

Representing another person's work as your own is always wrong. Faculty are 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](http://www.stonybrook.edu/commcms/academic_integrity/index.html)

## Critical Incident

### Management Statement

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, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.

Ĉ

Ĉ	<a href="#">Final Exam Practice Pro...</a>	Yu Li, Dec 5, 2019, 9:20	v.1	d'
Ĉ	<a href="#">Final practice exam ans...</a>	Yu Li, Dec 8, 2019, 5:08	v.1	d'
Ĉ	<a href="#">Midterm 2 Practice Pro...</a>	Yu Li, Oct 19, 2019, 7:42	v.1	d'
Ĉ	<a href="#">Practice exam answers....</a>	Yu Li, Oct 26, 2019, 12:1	v.1	d'

Comments

