

MAT513: Analysis for Teachers I

Prof. Scott Sutherland Stony Brook, Spring 2020

About this course: This is a course in the foundational ideas of calculus and the real number system. Since the intended audience is in-service and pre-service secondary school (grades 6-12) teachers, I will attempt to make ties not only to ideas in calculus but also those arising in earlier grades. However, keep in mind this is *not* a course on how to teach any specific school subject. Rather, the focus is on understanding the ideas that underlie them.

Places, Times, and Contact:

Contact Info: Math 5-112 / 631-632-7306 / scott.sutherland@stonybrook.edu
for office hours, see www.math.stonybrook.edu/cards/sutherlandscott.html

Grader: Yulun Xu, see www.math.stonybrook.edu/cards/xuyulun.html

Class Meets: MW 6:05-7:25 in Physics P-130

Textbook(s) The following texts are recommended.

- *Understanding Analysis*, 2nd ed., by Stephen Abbot (Springer, 2015)
- *Pre-Calculus, Calculus, and Beyond*, by Hung-Hsi Wu (American Mathematical Society, 2020)
- *How to Think About Analysis*, by Lara Alcock (Oxford U. Press, 2014).

Webpage and weekly schedule:

Please see the schedule at <http://www.math.stonybrook.edu/~scott/mat513.spr22/schedule>
The most up-to-date version of [this document](#) can also be found there.

Evaluation and Grading: Grades in MAT513 will be calculated as follows

- 40% Class participation, homework, and quizzes
- 30% Midterm (mid-March)
- 30% Final exam

Email and appointments: I am readily accessible via email and will respond to your emails as soon as I can. However, I may not check email continuously throughout the day (and especially not late at night) so please do not wait until the last minute to email concerns or questions. Detailed questions are best done in person or via zoom, which can be during my [office hours](#) or by appointment.

Masking Policy: All faculty, staff, students and visitors, regardless of their vaccination status, must wear face coverings while inside University and Hospital buildings. This includes classrooms, hallways, libraries and other common spaces, as well as SBU buses and shuttles. It also includes the Health Sciences and Basic Sciences Towers, offices in Flowerfield, Tech Park, Ronkonkoma and Commack, and administrative areas within outpatient facilities and physician practices. Face coverings are not required inside personal rooms at residence halls, while eating in on-campus dining areas, within personal offices or in non-public facing personal workstations. Masks are not required outdoors.

Americans with Disabilities Act: 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.

Academic Integrity: Each student must pursue his or her academic goals honestly and be held personally accountable for all submitted work. 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. 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 University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.

Course Evaluation: Each semester Stony Brook University asks students to provide feedback on their courses and instructors through an online course evaluation system. The course evaluation results are used by the individual faculty, department chairs and deans to help the faculty enhance their teaching skills and are used as part of the personnel decision for faculty promotion and tenure. No individually identifiable data are ever reported back to the university or instructor. Students who have completed previous evaluations can view all faculty ratings at: classie-evals.stonybrook.edu/.