0.1. General Information. This is a course in real analysis. A primary goal is for you to improve your depth of understanding of functions and calculus while learning how ideas from this course are embedded in the secondary curriculum. We will discuss high school level pre-calculus and calculus topics as we simultaneously study these topics from a more advanced level. This course may include both new and familiar topics; your objective should be to increase your depth of understanding of each topic studied. This course will emphasizes understanding definitions, mathematical proof, and mathematical writing. You should be prepared to work through a lot of problems, prove your results and write your work clearly and accurately.

0.2. Pre-requisites. A minimum pre-requisite for this course is completion of MAT 511. A strong background in undergraduate mathematics, including college calculus, is also assumed, and an undergraduate course in analysis is helpful.

0.3. Textbook. We will be using the fifth edition of the book Analysis: With an Introduction to Proof, by Stephen Lay. As the semester progresses, you may also want to refer to a high school or college calculus textbook. You should already have one; if not, I would suggest borrowing one from the Stony Brook library, a public library, or your high school campus.

0.4. Homework/Class Work/Quizzes.
Homework is an essential component of the course. Homework will be assigned and collected regularly, and selected problems will be graded. Homework is due at the beginning of the class period, and late homework will not be accepted. Announced and/or unannounced quizzes may be given, and there may be assignments completed and collected during class. Students are expected to be present for class, and missed quizzes or classwork may not be completed for credit. The lowest 2 scores in the homework/classwork/quiz category will be dropped.

A significant part of doing mathematics is communicating mathematics. Homework is expected to be clear and grammatically correct, in addition to mathematically accurate. Homework not meeting this criteria may
be returned ungraded.

Homework may be graded by the course instructor and also by the course grader. Aside from mathematical errors, all scores are to be considered final.

You are encouraged to work together, but submitted written assignments must be your own work and represent your own understanding. If you consult any outside sources, these must be cited. If you need clarification on this policy, please ask.

0.5. Exams.
There will be two midterms exams and a final exam. Exam 1 is tentatively scheduled for Wednesday, February 26. Exam 2 is tentatively scheduled for Monday, April 14. The final exam is scheduled by the University for: **Tuesday, May 13 from 8:30 pm to 11:00 pm**. An effort will be made to schedule one alternative final exam time.

0.6. Final Grades. Your final grades will be based on the following:
(1) Exam 1: 20%
(2) Exam 2: 20%
(3) Homework/Quizzes/Classwork: 30%
(4) Final Exam: 30%

0.7. 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 http://www.stonybrook.edu/uaa/academic judiciary/.

If you do not understand the policy on academic integrity, please ask for clarification.

0.8. Americans with Disabilities Act: 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. https://web.stonybrook.edu/newfaculty/StudentResources/Pages/DisabilitySupportServices.aspx.

0.9. 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, or inhibits students’ ability to learn.