

AMS 151-Applied Calculus 1-Fall 2024 (Lecture 1-Mondays)

Welcome to a 3 credit course in differential calculus with an introduction to integral calculus. We will examine the slope (derivatives) along with myriad applications and area (integrals) as well as the intimate relationship that exists between these two concepts as described by something we call the fundamental theorem of calculus. The idea of the limit which you may have seen in pre-calculus will be at the forefront of almost every topic we cover. This is an online synchronous course where your attendance every Monday at 6:30PM is required. Lectures will NOT be recorded. The zoom link for lectures is <https://stonybrook.zoom.us/j/94196547900?pwd=RWF1oQrOk7Caay3ART82yoA0MrDS0j.1>

Instructor: Bill Bernhard (bill@math.sunysb.edu) “bbern”

Head teaching assistant: Axi Aguilera (axi.aguilera@stonybrook.edu). Office hours for all Tas will be posted on Brightspace.

Textbook: Stewart’s Calculus 5th Edition and webassign available at webassign.net with (coverage of most sections in chapters 2-5) with class key sunysb12221627.

Prerequisites: B or higher in Mat 123 or level 5 on the mathematics placement exam.

Grading:

Webassign: 20% (Assignments will be posted before midnight after lecture, due at 6PM before class exactly one week later. There are no extensions. Please do not email us about this. Students may miss one assignment without penalty.)

Midterm 1: 20%-9/30 from 6:30PM-9:30PM in class on zoom.

Midterm 2: 20%-11/11 from 6:30PM-9:30PM in class on zoom.

Cumulative Final Exam: 40%-12/11 from 8:30PM-11:30PM on zoom during the final exam period.

Student Accessibility Support

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact the Student Accessibility Support Center, 128 ECC Building (631) 632-6748, or via email 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 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. 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 https://www.stonybrook.edu/commcms/academic_integrity/index.html.

I take academic integrity very seriously and will report every suspected case of academic dishonest to the Academic Judiciary. Please contact me if you have any questions about academic integrity or suspect any cases of academic dishonesty.

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 Student Conduct and Community Standards 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. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.