Math 122: Overview of Calculus

Class Webpage:
connor-lehmacher.github.io/teaching/2023-math-122/coursepage.html
Instructor: Connor Lehmacher
Email: connor.lehmacher@stonybrook.edu
TA: Sheena Chen
Email: sheena.chen@stonybrook.edu
Class Time: Mon-Thurs 3:15-5pm, Fri 3:15-4pm
Classroom: E+SSCI 183
Recitation: Tue, Thurs 10:55-12:15pm, Frey 226
Credits: 3

Course Description: From the undergraduate bulletin: The basics of calculus in a self-contained, one-semester course. Properties and applications of polynomial, exponential, and logarithmic functions. Derivatives: slopes, rates of change, optimization, integrals, area, cumulative change, and average. The fundamental theorem of calculus. Emphasis on modeling examples from economics.
Note: This summer 2023 version of the class will have an emphasis on examples from physics instead of economics.

Grading: The relative significance of exams and homework in determining final grades is as follows:

Homework	50%
Midterm	20%
Final Exam	30%

Homeworks will each some number of points on them which will weight how add into the final grade. Letter grades are based on total class percentage, following the weight above. Final grades will be curved. However, students who earn percentages in the following ranges will earn *at least* the listed letter grade:
A 95-100; A- 90-94; B+ 86-89; B 83-85; C+ 75-78; C 71-74; C- 67-70; D+ 62-66; D 58-61
If you want to see your current grades, please send me an email or talk to me before or after class.

Textbook and Reference Materials: There is no textbook for this class. However, there a various reference materials available on the course website. I will post my notes for each class before each class. And the website has links to other useful reference material.

Problem Sets: Problem sets are to be turned in at the start of class on the day they are due. The problem sets will be available on the course webpage and will be given out as paper copies in class. The due dates are on the webpage. Please submit the problem sets on paper and use clear language and neat hand-

writing. Under special circumstances homework will be accepted by as scans by email and/or accepted late. Send me an email or talk to me before or after class. There will be 10 problem sets. Graded problem sets will be returned in recitations or in class. The lowest score among the problem sets will be dropped.

Policy on Problem Set Cooperation: Students are encouraged to work together on problem sets. However, the final answers you turn in must be based on your own understanding and must be in your words. Per university policy, all instances of suspected academic dishonesty will be referred to the academic judiciary.

Exams: There will be a midterm on July 21st, and a final exam on August 3rd. The final exam will be cumulative but will emphasize the second half of the material. Materials to study for the exams will be posted on the course website.

Project: Depending on how much material we cover there may be a project in the last week of class. For grading purposes the project will be considered as a homework (with a lot of points) and would replace Problem Set 9 and Problem Set 10. There would be some time to work on the project in class. The project would be due on August 3rd.

Calculator Policy: Graphing or scientific calculators are permitted on homeworks. See the course webpage for links to calculators. However, it is considered academic dishonesty to copy solutions from the internet. Calculators will not be permitted on exams.

Schedule: The schedule for the course is available on the course website. It will be filled out as the course progress depending on how much material we cover each class.

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 in the Stony Brook Union Suite 107, (631)632–6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential. www.stonybrook.edu/commcms/studentaffairs/dss/

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. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at www.stonybrook.edu/commcms/academic_integrity/

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