

Syllabus

Course description: The differential calculus and integral calculus, emphasizing conceptual understanding, computations and applications, for students who have the necessary background from 12th-year high school mathematics. Differentiation of elementary algebraic; trigonometric, exponential, and logarithmic functions; graphing; modelling and maximization; the Riemann integral; and the fundamental theorem.

Credits: 4.

Meetings: TuTh 4:00pm-5:20pm in Javits 101.

Instructor: Julia Viro (julia.viro AT stonybrook.edu)
Office hours: TuTh 10am-11am and 2:30pm-3:30pm in MLC or by appointment.

Recitation instructors:

R01 (TuTh 10am-10:53am ESS 079) Jean-Francois Arbour (jean-francois.arbour AT stonybrook.edu)
Office hours: TuTh 2:30pm-3:30pm in 3-103 (Math building), Tu 1pm-2pm in MLC, or by appointment.

R02 (TuTh 5:30pm-6:23pm ESS 069) Yevgenya Zhukova (Zhukova.Yevgeniya AT stonybrook.edu)
Office hours: Th 2:30pm-4:30pm in Math building S-240A, Th 4:30pm-5:30pm in MLC (Math building S-235)

Textbook: Gilbert Strang *Calculus. Volume 1*, OpenStrax

Download for free at

<https://openstax.org/details/books/calculus-volume-1>

The book is also available as e-book through WebAssign.

WebAssign. WebAssign is the course online platform and you need to get an access code (the first two weeks are free). The price for one semester is \$38.

Weekly assignments (due each Wednesday 11:59 pm) will be given through WebAssign. You can access WebAssign through Blackboard (Tools → Access WebAssign).

Blackboard. All course documents (Syllabus, Lecture notes, Practice exams, etc.) will be posted on Blackboard in the section of Documents.

Calculators. Calculators will NOT be allowed on the exams. Some homework problems may require use of calculator, though. Google calculator will suffice.

You are encouraged to use any graphing program that will help you to visualize functions (but not on the exams!)

Homework. Homework will be assigned weekly in the form of WebAssign. will be assigned before each exam.

Exams. Midterm 1 is on Monday 3/2 at 8:45pm-10:15pm.

Midterm 2 is on Monday 4/13 at 8:45pm-10:15pm.

Final Exam is on Wednesday 5/13 at 11:15am-1:45pm.

Missing any of three exams without any serious and documented reason will result in you failing the course.

Make-up policy. Make-up examinations are given only for work missed due to unforeseen circumstances beyond the student's control. Late home work will not be accepted. WebAssign extension won't be given automatically.

Grading System. Your grade for the course will be based on: WebAssign and Homework 10%, Midterm 1 25%, Midterm 2 25%, Final Exam 40%.

Where to get help. If you have any mathematical questions or concerns, your instructors are ready to help you. Please address to your recitation instructor (during his/her office hours or by e-mail) or your lecturer (during office hours or by e-mail).

Also, you can get help in Math Learning Center (MLC). It is located in Math Building room S-235. No appointment is needed.

QPS Learning objective: Learning Outcomes for "Master Quantitative Problem Solving" includes the following:

1. Interpret and draw inferences from mathematical models such as formulas, graphs, tables, or schematics.
2. Represent mathematical information symbolically, visually, numerically, and verbally.
3. Employ quantitative methods such as algebra, geometry, calculus, or statistics to solve problems.
4. Estimate and check mathematical results for reasonableness.
5. Recognize the limits of mathematical and statistical methods.

Student Accessibility Support Center (SASC) statement: If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact SASC (631) 632-6748 or <http://studentaffairs.stonybrook.edu/dss/>. They will determine with you what accommodations 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 SASC. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities/asp>.

Academic integrity statement: 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/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 Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.