

## Course Description

**Course description:** The goal of the course is to build a solid foundation for calculus study, theory of functions. We will first discuss functions and their general properties. We will learn how to manipulate with formulas and graphs. We will then focus on the most important classes of functions, namely linear functions, polynomials, rational, exponential, logarithmic, trigonometric, and (if time will allow) inverse trigonometric functions. We will learn how to apply abstract mathematical knowledge to solving special problems in natural and social sciences.

**Course coordinator:** Julia Viro. E-mail: [julia@math.sunysb.edu](mailto:julia@math.sunysb.edu)

**Textbook:** Sheldon Axler, *Precalculus. A Prelude to Calculus*, Wiley.

**Blackboard** is a resource to get the information about course materials, assignments, grades, announcements, contacts. Check it regularly.

**Homework** will be assigned weekly through the Blackboard and collected in recitation classes. Late home work will not be accepted.

**Exams:** Midterm 1 is on Wednesday, October 17th. Midterm 2 is on Monday, November 19th. Both midterms are evening exams. Final exam is on Wednesday, December 12th at 2:15pm-5:00pm.

**Grading system:** your grade for the course will be based on recitation work (participation, homework, quizzes) 20%, midterms 20% each, and final exam 40%.

**Calculators** will not be permitted on quizzes and exams. We will concentrate on conceptual aspects of the material rather than computational ones. Some of homework problems will require technology assisted calculations, but no quiz or exam problem will do.

**Make-up policy:** No make-up exams will be given. If you miss an exam due to unforeseen and documented circumstances beyond your control, your score will be prorated.

**Math Learning Center (MLC)** is a place where you can get free tutoring help with any of your math concerns. MLC is located in the basement of Math building, room S-240A. Website is [www.math.sunysb.edu/MLC/index.html](http://www.math.sunysb.edu/MLC/index.html)

**Disability support services (DSS) statement:** If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services (631) 6326748 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 Disability Support Services. For procedures and information go to the following website: [www.stonybrook.edu/ehs/fire/disabilities/asp](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 [www.stonybrook.edu/uaa/academicjudiciary](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.