Instructor: Lisa Berger  
Office: Math 4-105  
Email: lbrgr@math.sunysb.edu  
Current Office Hours:  
- Tuesdays and Thursdays: 2:30-3:30, Room 4-105  
- Tuesdays: 12:00-12:50 Room P-143

Office hours may be adjusted to accommodate the instructor’s schedule and/or student needs. Students unable to meet during scheduled office hours are encouraged to schedule an appointment with the instructor.

0.1. **General Information.**
This is a course in mathematics. We will study many of the topics that are studied in the high school curriculum at an advanced level. One goal of the course is for students to make connections among different areas of mathematics and between high school and advanced mathematics. This course may include both new and familiar topics; your goal should be to increase your depth of understanding of each topic studied. A main focus of the course will be on mathematical problem solving, proof, and writing mathematics. You should be prepared to work through a lot of problems, prove your results, and write your work clearly and accurately. We will study a range of topics selected from the areas of algebra, geometry, trigonometry, functions, probability and statistics.

0.2. **Course Materials.** There is no required textbook for this course, so students should plan to consistently maintain high quality class notes. Students are also encouraged to refer to textbooks and notes from earlier coursework, and each student should become familiar with the New York State Common Core Standards for Mathematics:

- [http://illustrativemathematics.org/](http://illustrativemathematics.org/)  
- [http://ime.math.arizona.edu/progressions/](http://ime.math.arizona.edu/progressions/)  
- [http://commoncoretools.wordpress.com/](http://commoncoretools.wordpress.com/)

0.3. **Mini-Projects.** Each student will be required to complete 2-4 small projects. The first small project is due, in class, on Thursday, February 7. For this project each student will lead a short, (20-25 minute), class discussion on a mathematical topic from the New York Common Core State Standards for Mathematics. More details will be given during the first week of class.

Other small projects may consist of additional discussion sessions, Smart Board presentations or written assignments, with additional guidance from the instructor. Quality, on-time contribution to the projects represents 10% of the final course grade.
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. 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.

0.5. **Exams.**

There will be three exams. Exam 1 will consist of problems selected from the New York State Regents Exam. Exam 1 is tentatively scheduled for **Tuesday, February 5**. Students who do not achieve a score of at least 85% on Exam 1 will have two opportunities to to pass a make-up exam. There will be a midterm exam and a final. The midterm is tentatively scheduled for **Tuesday, March 14**. The **final exam** is as scheduled by the University, for **Monday, May 20**, from 5:30 pm to 8:00 pm.

0.6. **Final Grades.**

In order to earn a grade above $C-$, a student must achieve a minimum score of 85% on Exam 1 or on a subsequent make-up exam. For students passing Exam 1 with a minimum score of 85%, the grade is determined as follows:

1. Exam 1: 10%
2. Homework/Quizzes/Classwork: 20%
3. Mini-Projects: 10%
4. Midterm Exam: 30%
5. Final Exam: 30%

A student not passing Exam 1 with a minimum score of 85% will not receive above a $C-$ for the course.

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 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 [http://www.stonybrook.edu/uaa/academicjudiciary/](http://www.stonybrook.edu/uaa/academicjudiciary/)

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, room128, (631) 632 – 6748. They will determine with you what accommodations, if any, 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 with Disability Support Services.

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. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.