

MAT 515 GEOMETRY FOR TEACHERS

FALL 2009

Instructor Information

Instructor: Lisa Berger

Office: Math 4-105

Email: lbrgr@math.sunysb.edu

Current Office Hours:

Tuesdays: 5:20-6:20

Thursdays: 5:20-6:20

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.

Grader: Steve Taylor, Math Tower 3-101, taylor@math.sunysb.edu

0.1. General Information. This is a course in Euclidean geometry, which many of you currently teach. Hence, substantial familiarity with axioms, definitions and theorems is assumed. While many of the mathematical objects we consider will be familiar, we will attempt to study them in greater depth. The topics selected for this course are of particular interest and relevance to high school teachers, but the mathematics should be challenging for *you*. While the focus of this course is geometry, you should feel free to attack any problem using any mathematics you know and understand. Indeed, a second goal is to build connections between geometry and other branches of mathematics. Plan to work hard, solve a lot of interesting problems, and along the way develop your skills in finding patterns, making conjectures and proving theorems.

0.2. Textbook. We will be using the textbook *Geometry by Discovery*, by David Gay.

0.3. 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.

While you are encouraged to collaborate on homework, assignments submitted for a grade must consist of your own written solutions.

0.4. Exams. There will be three exams. Exam 1 is *tentatively* scheduled for **Thursday, October 8**. Details on exam 2 will be announced in class. The **final exam** has been scheduled by the University for **Tuesday, December 15** from **5:15 pm-7:45 pm**.

0.5. **Final Grades.** Final grades will be determined based on the breakdown below:

- (1) Exam 1: 20%
- (2) Exam 2: 20%
- (3) Homework/Quizzes/Classwork: 30%
- (4) Final Exam: 30%

0.6. **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 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/academic_judiciary/.

0.7. **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 (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 Disability Support Services. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities/asp>.

0.8. **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.