Math 465: Foundations of Geometry  
Math 584: Euclidean and Non-Euclidean Geometry  

Fall 2010  

Marcin Mazur  
Office: LN 2228  
Office Phone: 7-6540  
E-mail: mazur@math.binghamton.edu  
Course web page: www.math.binghamton.edu/mazur/teach/46510.html  


Textbook:  
Geometry: Euclid and Beyond, by Robin Hartshorne.  

Course content: The objective of this course is to present a solid axiomatic foundation for geometry. The course will start with discussion of Euclid’s Elements. Hilbert’s axiomatization of geometry will be introduced and various models of the axioms will be discussed. Although the mathematical prerequisites for the course are few, there will be many proofs done in class, and you will also need to prove results on your own in the homework and provide (simpler) proofs on exams. Additional topics (not covered in the book) may be discussed in class.  

Homework and Classwork: Homework will be collected regularly. Assignments and corresponding due dates will be posted on the course web page. Solutions will be collected and graded.  

Tests: There will be one test and the final. No make-up tests.  
Date of the test: Wednesday, October 20.  
Date of the final exam: Wednesday, December 15, 4:30-6:30, SW 331.  

Grading Policy: Grades will be based on a combination of homework, classwork, the test, and the final as follows: homework and classwork 30%, test 30%, final 40%.  

Academic Honesty: All students are expected to adhere to the Student Academic Honesty Code.  

Final Remarks: You are responsible for attending class, behaving in class, taking class notes, doing homework problems, asking for and coming in for help, etc.; in the
end, you are responsible for your success in this class so work hard! Late arrivals, early departures, cell phone conversations, eating, or drinking are not appropriate. It is your responsibility to keep informed of all announcements, syllabus adjustments, or policy changes made during scheduled classes. **Both class attendance and systematic work on the homework problems are crucial for the success in this class.**

All the above information is tentative. I reserve the right to make reasonable changes if I find it necessary.