Honor Code: For the tests in this class you must not give or receive any aid. For the homework you are encouraged to work with other students, but the work you turn in should be in your own words and should be understood by you.

Textbook and other resources:

- There is no required textbook for this class. But, my original set of lecture notes followed *Geometry and Symmetry* by Kinsey, Moore, and Prassidis.
- Ideally you will have your own laptop computer for this class. We will run some (free) geometry software on it. For instance, we will use Geogebra, a free geometry and algebra application, see [http://www.geogebra.org/](http://www.geogebra.org/). You will probably want to install it on your own computer. We will also probably install some noneuclidean geometry software on our computers. Note: this course is *not* actually built around using computer geometry packages. But they are useful.
- A real ruler and compass and protractor.

Grade Breakdown: Your grade will be based on the following percentages for each category of the course (possibly with some categories being eliminated during the semester).

Homework = 30%,  Class Work = 5%,  Quizzes = 15%,  Midterm = 20%,  Final Exam = 30%

To calculate your grade you take your average in each category, multiply it by the percentage that category is worth, and add these up.

So what do I do with the total percentage? Here’s how the breakdown works:

- A $\geq 93$  
- B+ $\geq 87$  
- C+ $\geq 77$  
- D $\geq 60$
- A− $\geq 90$  
- B $\geq 83$  
- C $\geq 73$  
- F $\geq 0$
- B− $\geq 80$  
- C− $\geq 70$

Homework:

- All homework solutions should use a combination of writing and standard mathematics: no problem should consist of 0% writing and only a sequence of formulas or equations.
- Some problems will be calculational, but most will involve proofs.
- Every proof should include a brief statement of what is being proven.
- I will try to have homework assigned and due every week.
- I will probably not be able to grade every problem. This is unfortunate since you deserve to have every problem graded and since this would help you out, but there is only one of me and about 25 of you and maybe 125 homework problems per week (from my point of view, not yours: from yours there will be maybe 5 problems per week).
Class Work: A fair number of classes (5? 10?) will have activities and hands on work for you to do. You will receive a grade for these (although they will not be graded very strictly).

Quiz: We will have two quizzes to emphasize definitions, statements of main theorems, and constructions.

Tests: We will have one midterm and a final exam. I will try to write them so that most problems are similar to homework problems. However, I might have one “new” type problem on each test, just to “test” you.

Office Hours: I’ll have regularly scheduled office hours, but at first I’ll wait and see what time you guys like to come to my office.

Disabilities: I will happily accommodate any needs you have based upon a disability that is registered with the office of Disability Support Services (DSS). You need to contact me ahead of time for this accommodation. You can contact DSS at 410-617-2062, or mwiedefeld “at” loyola.edu.

Course outline: We will start with constructions, because this is what came historically. After that we will do Euclidean Geometry (still following history here). Finally, we will do non-euclidean geometry, hyperbolic, and if there’s time, parabolic.