MATH 4507: GEOMETRY
FALL 2015

General Information.

Instructor:	Bart Snapp
Email:	`snapp.14@osu.edu`
Office:	220 Math Building (614) 292-9414
Office Hours:	Email me to make an appointment
Class Webpage:	`http://www.math.osu.edu/~snapp/4507/`

Greetings. In this course we will learn the basic properties of all two-dimensional geometries. We will first explore the properties of Euclidean, or flat, 2-dimensional geometry you learned in secondary school and in calculus. We will then learn how to navigate in the other 2-dimensional geometries, namely spherical, or positively curved geometry, and finally hyperbolic, or negatively curved, geometry. This last is the geometry that most closely approximates that of "the real world," that is, the relativistic space-time geometry of Einstein.

It turns out that there is a single approach allowing us to study all these geometries in the same way. This is the approach we will take.

Grading. Your grades will be based on the following:

- 40% for homework.
- 60% for exams.

100%–93% A	89%–87% B+	79%–77% C+	69%–67% D+
92%–90% A−	86%–83% B	76%–73% C	66%–60% D
	82%–80% B−	72%–70% C−	59%–0% E

You can check your grades at anytime using *Carmen*. Check out:

$$\text{http://carmen.osu.edu/}$$

As grades are posted, you have exactly **2 weeks** from the posting date to notify me concerning any errors or irregularities in *Carmen*.

Homework. During class periods we will work on worksheets. Sometimes I will do some lecturing on a particular problem, but often I will ask you to work on solutions individually or in small groups (with some guidance from me). If you finish your worksheet before class is over, I will ask you to help a classmate finish up if that seems appropriate.

In class we will negotiate when assignments are due. Late assignments will not be graded.

You will receive 3 points for a correctly completed problem, and less for partially correct work.

IMPORTANT: Answer to questions in the worksheets will be graded on the basis of their quality as instructional material. You are preparing the text that you will use to study for the examinations in the course. Thus points will be taken off for incomplete explanations that could not be used by another student in the course as his/her textbook. This means that explanations must be given in complete sentences incorporating a complete and logical succession of ideas.

Exams/Final. The first exam is scheduled for Wednesday, October 14th. The second exam is scheduled for Friday, December 4th.

- The final is on Thursday, December 17th, 10:00am–11:45am.

Students with Disabilities. Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone (614) 292-3307 and VRS (614) 429-1334; webpage: `http://www.ods.ohio-state.edu`

Academic Misconduct Statement. It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee. For additional information, see the Code of Student Conduct: `http://studentaffairs.osu.edu/resource_csc.asp`