Welcome to the course! There will be an Assignment due for every class. Typically, this involves a Study component (a very careful reading of sections of the text) and a Problem solving component (the solution of problems at the end of the chapters). The assignments are Team assignments. You may collaborate on the problems but only with members of your team. However, each of you should be ready to solve the problems on the board after they are due. Every Wednesday there will be two question, 10 minute, 20 point Quiz at the beginning of class on the assignments due up to and including the Monday of that week (but not the one assigned on that Monday). You will usually be asked to answer a question about the reading and to solve one of the assigned problems. You will also be asked to do four Projects on matters closely related to the text. They are listed on the Course Website

http://www3.nd.edu/~hahn/math10270/

and will enhance your understanding of the material. These are Team Projects to which each team member needs to contribute (again, collaboration only with team members). There will be one Mid-Term Exam (100 points) in addition to the Final Exam. (The Course Website has copies of previous quizzes and tests.) In addition to the Text, you will need a calculator and a straightedge and compass.

Assignment #1, due Friday. Study “Sensing Form and Conceiving Number” and “Rising Civilizations.” Problems 2 to 9. These involve basic algebra and geometry.

January 17, Friday. In class: Discussion of Problems. Start of Chapter 2 with “Gods of Geometry.” Assignment #2, due Monday. Study “Intro” and “Greek Architecture.” Problems 1 to 5.


January 22, Wednesday. In class: Quiz 1 on Assignments #1, #2. Discussion of Problems.
Assignment #4, due Friday. Study “Dealing with Forces.” Problems 17 to 20.
Start Project 1. It will be due on Monday, February 10.

January 24, Friday. In class: Discussion of Problems. Work on “Dealing with Forces.”
Assignment #5, due Monday. Study “Dealing with Forces.” Problems 21 to 23.

Assignment #6, due Wednesday. Study “The Roman Arch” and do Problems 25 to 28.

January 29, Wednesday. In class: Quiz 2 on Assignments #3, #4, #5. Discussion of Problems. Assignment #7, due Friday. Problems 29 to 32.

January 31, Friday. In class: Work on “The Colosseum” and Discussion of Problems.
Assignment #8, due Monday. Study “The Colosseum” and do Problems 33 to 36.
Study Discussion 2.1 and do Problem 37.

**Assignment #9, due Wednesday.** Study “The Pantheon” and Discussion 2.3 and do Problem 38. Complete your studies of Chapter 2.

**February 5**, Wednesday. In class: **Quiz 3** on **Assignments #6, #7, #8.** Start of Chapter 3 with “The Hagia Sophia.” **Assignment #10, due Friday.** Study “The Hagia Sophia” and do Problems 1 to 3.


**February 10**, Monday. **Project 1** is due. In class: Tour of Islamic, Romanesque, and Gothic architecture. Discussion of Problems. **Assignment #12, due Wednesday.** Study “Soaring Gothic” and do Problems 6 and 7.

**February 12**, Wednesday. In class: **Quiz 4** on **Assignments #9, #10, #11.** Discussion of Problems. **Assignment #13, due Friday.** Study “From the Annals of a Building Council” and do Problems 8 to 10. Start **Project 2.** It will be due Friday, February 28.

**February 14**, Friday. In class: Discussion of Problems. **Assignment #14 by Monday.** Study “The Magic of Venice and Pisa” and complete your study of Chapter 3 (both narrative and problems). [Note: If time permits, we will turn to the mathematical study of symmetry after we complete the Calculus of Chapter 7.]

**February 17**, Monday. In class: Start Chapter 4 with work on “Remarkable Curves and Remarkable Maps.” **Assignment #15, due Wednesday.** Study this section and do Problems 1 and 3 of Chapter 4. (Which of the assertions made in Problem 1 is wrong?)

**February 19**, Wednesday. In class: **Quiz 5** on **Assignments #12, #13, #14.** Discussion of Problems. Overview of “A Line of Numbers.” **Assignment #16, due Friday.** Study “The Line of Numbers” and do Problems 5, 6, 7, 10, 12, 13, 14, 15, and 16.

**February 21**, Friday. In class: Work on “The Coordinate Plane.” This deals with lines and circles. Discussion of Problems. **Assignment #17, due Monday.** Study “The Coordinate Plane” and do Problems 2 and 17 to 23.

**February 24**, Monday. Work on problems and on “Coordinate System in Three Dimensions.” **Assignment #17, due Wednesday.** Study this section and do Problems 24 to 33.

**February 26**, Wednesday. In class **Quiz 6** on **Assignments #15, #16, #17.** Discussion of Problems and work on “The Duomo of Florence.” **Assignment #18, due Friday.** Study this section and do Problems 34 to 37.

**February 28**, Friday. In class: Work on “The Duomo of Florence.” Discussion of Problems. Start of Review for the Mid-term Exam. **Project 2** is due.

**March 3**, Monday. Review for the Midterm
Exam, a continuation of the discussion of the Duomo of Florence.

March 5, Wednesday. In class 50 minute Mid-Term Exam.

March 7, Friday. Conclusion of “The Duomo of Florence.”

March 8 to 16. Saturday through Sunday. Have a wonderful Mid-semester Break.