Course Goals and Preview: Topology can be considered as the study of sets endowed with a notion of *closeness* and mappings which preserve closeness. We will build on the development of convergence and continuity which you saw in advanced calculus in several stages. First we will look at metric spaces, and then at more general topological spaces. Our final goal will be the classification theorem for surfaces.

We will cover much of Chapters 2 through 5 in the text, with some omissions such as the fundamental group. We will start with metric spaces (Chapter 2), but refer back to the first chapter on set theory when necessary.

Homework: Generally you will have a week to complete assignments. You may work together to resolve tough problems, but when you write up your solutions to hand in, you must do so without the aid of another person or another person’s work. That is, while you may have borrowed an idea along the way, the final product must be your own.

Grading and Exams: There will be one midterm exam, counting for 25% of the total grade, homework, groupwork, and class participation together count for 35% of the total grade, and a final exam which counts 40% of the total grade. The midterm is tentatively scheduled for Wednesday, Feb 13. The final is Wednesday, March 19 at 12:00.

Accommodation: Students with documented disabilities who may need accommodations, who may have emergency medical information the instructor should know, or who may need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the end of the first week. In order to arrange alternative testing the student should make the request at least one week in advance of the test. Students seeking accommodations should be registered with the Office of Services for Students with Disabilities.