

**Math 6342, section 10937      Fall 2006****Topology****Classes:** MW 5:30-7:00, 162 F

Instructor:	Andrew Török	Office:	672 PGH
Phone:	(713) 743-3478	E-mail:	torok@math.uh.edu
Office hours:	by appointment, and TBA		

We will use mainly the book “Topology” by James Munkres (either the second or first editions). We will cover most of chapters 1-5, and parts of chapters 6-8.

Additional notes will be provided if needed, or put on reserve in the library.

The prerequisite is Math 4331 (in particular Chapter 2 of Rudin’s “Principles of Mathematical Analysis”, which discusses properties of metric spaces) or consent of the instructor.

Some of the main topics of the course are: topological spaces and continuous applications, connectedness, compactness and its characterizations, the separation axioms and the theorems of Urysohn and Tietze, Tychonov’s theorem, the Ascoli-Arzelà theorem.

**Grading.** There will be one midterm, the final, and regular homeworks. Some exams might be take-home. The lowest homework grade will be dropped. Make-up exams are offered only in exceptional situations.

The course grade is approximately based on a total score of 400 points (100 points for the midterm, 200 for the final, and 100 for the homeworks).

Please bring your student ID to all exams.

**Homeworks.** Problem assignments will be given throughout the semester. Even if you discuss the problems with your colleagues or me, you have to write the solutions on your own! Please write the solutions clearly and with care.

I will also assign problems that you do not have to turn in, but which are important for understanding the material. Try to work these problems by yourself, or together with your colleagues. Please ask questions in class (this helps everyone). Come to see me if you have difficulties.

**WWW.** Information related to this course will be posted on the web. There is a link on my web-page, <http://www.math.uh.edu/~torok/>.

I reserve the right to change these policies if I think it is necessary. I hope you enjoy the course.