

**SYLABUS**  
**TOPOLOGY (math 581.1) FALL 2005**

INSTRUCTOR: Dr. Krzysztof Chris Ciesielski  
OFFICE HOURS: T&Th 8:00-8:30am, 11:30-noon, 6:30-7:00pm, (subject to change)  
OFFICE: 308G Armstrong Hall  
CLASS MEETING TIMES: T, Th 10:00-11:15am  
407 Armstrong Hall  
OFFICE PHONE NUMBER: 293-2011 ext. 337  
TEXT: Topology, 2<sup>nd</sup> edition, by Munkres  
TENTATIVE GRADING SCHEME: Homework 30%  
Mid Term Test 30%  
Final Test 40%  
FINAL EXAM: The final exam will be comprehensive.

The topology can be considered as an abstract version of a classical geometry. However, most of the classical geometrical notions are lost in the process of generalizing old geometrical ideas. The subject of the course is highly theoretical, although the degree of abstraction will rise gradually. The main part of the course will be introducing new abstract notions and examining their properties by rigorously proving theorems. Essentially there will be no calculations at all!

To help you get through the difficulty of studying the abstract theory I will be assigning you homework exercises at least once a week. You will be expected to write the solutions, which I will correct. I will try to write you my comments in your solutions. I will also try to prepare you my own solutions to give you comparison between yours and mine approach. Let me also emphasize that some of the exercises might be more difficult than the others and I will not expect you to solve all exercises during the semester. However, to be at the "A" level for the homework I will expect you to solve 70-80% of all homework assignments.

Finally, there is a possibility that I will organize periodically the recitations depending of your demand. It can be done either during regular class meetings or, as an optional choice, in some additional time.

The questions and discussions will be encouraged.