MTG 4302/MTG 5990 -- Topology – Fall 2015 -- TuTh 9:30-10:45, ChemPhys 117

Prerequisite: MAA 3200 or consent of the instructor.

Textbook: *Foundations of Topology*, C. Wayne Patty, 2-nd edition; ISBN: 978-0-7637-4234-8

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Office Hours: Mondays, Fridays 10:30-11:50am; other times only by appointment.

Method of Evaluation:
For undergraduate students, your final grade in the course is based on:
   1. **Homework and in-class participation (30%) -** one hand-in homework every other week;
   2. **Midterm exam (30%) -- Tentative schedule: Tue. Oct. 13;**
   3. **FINAL EXAM (40%) – comprehensive exam – Tue. Dec. 8, 2015, 9:45-11:45am.**

For graduate students, your final grade in the course is based on:
   1. **Homework and in-class participation (25%);**
   2. **Midterm exam (25%) -- Tentative schedule: Tue. Oct. 13;**
   3. **Project and presentation (20%) – Both due on or before Wed. Nov. 25.**
   4. **FINAL EXAM (30%) – comprehensive exam – Tue. Dec. 8, 2015, 9:45-11:45am.**
      One question of the final exam will be from the project.

      Undergraduate students may choose to do a project in a team led by a graduate student
      and elect the evaluation method for graduate students.

Important Note: I accept (and encourage) collaboration and team-work on homework and project. However, all students should write **their own** homework/project and **understand** what they wrote. I **will not accept** copy-paste homework/project papers from a colleague or from other sources (internet, other books, etc.) You should acknowledge collaboration or inspiration from other sources whenever it occurs.

Topics to be covered: Topology is the study of ``space'' in its most abstract form. The first 5 chapters of your textbook contain the ``standard'' material for a course in point-set topology. My intent is to go through most sections from the first 4 chapters; that is to cover: metric spaces, topological spaces, open and closed sets, continuity, convergence, subspaces, product spaces, quotient spaces, connectedness and compactness. I hope we'll have time to end with some sections from Chapter 8, as an introduction to Algebraic Topology.

Your projects will be based on sections not covered in class from the first 5 chapters, or on topics from Chapter 6 or 8. Specific project topics will be announced on the second week of the semester.

Grade-scale: The following percentages will guarantee the associated grade:
               > 90 : A   80-85 : B   65-75 : C   < 50 : F
               88-90 : A-   78-80 : B-   55-65 : D
               85-88 : B+   75-78 : C+   50-55 : D-

NO MAKEUP EXAMS. If you have a **documented** medical or professional excuse for missing the midterm, that percentage of your grade may be made up by the final. LATE HOMEWORK will incur a penalty; it will not be accepted after

graded work has been returned, or a solution has been posted.

Attendance: Optional, but I hope you will find it useful to be in class.

Drop deadlines -- Last day to drop/withdraw with tuition refund: Mon. Aug. 31; -- Last day to drop with a DR grade (but no refund): Monday, Nov. 2.

The instructor reserves the right to make any changes he considers academically advisable.
These eventual changes would be announced in class and you are responsible to be aware of them.