Tues/Thurs 2:30-3:45  Hume 331

Instructor: Samuel Lisi  
Office Hours: Hume 318, Monday 3:30 – 5 pm, Tuesday 1:15 – 2:25 pm.  
Also available by appointment.  
Email: stlisi@olemiss.edu  
Textbook: *Topological Spaces: From Distance to Neighborhood*

Course content and objectives:

This class is an introduction to general topology. The main focus is on the three notions of completeness, connectedness and compactness. The motivation comes from considering certain calculus questions, notably the Intermediate Value Theorem and the Extreme Value Theorem, and seeing how they generalize to different settings and different problems.

Over the course of the semester, we will become more comfortable manipulating abstract mathematical objects, and will develop proof-writing skills.

Students enrolled for graduate credit will be expected to show greater rigor in their proofs and exposition.

Assessment: The course grade will be based on the following four items:

1. Three midterm tests, held during class time. The best two scores will count together for 50% of course grade. Tentatively, these will be held Thursday, February 25, Thursday, April 7th, and Tuesday, May 3rd.

2. Comprehensive Final Exam — 35% of grade. (Tuesday, May 10th, 4 PM.)

3. Homework and participation — 15% of the course grade. (Homework will be assigned roughly biweekly.)

All missed work will earn the grade of 0. No make-up tests will be given for any reason. Any person who must miss a scheduled exam must reschedule to take the exam at a time before the regularly scheduled exam.

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An I grade will not be given without the permission of the Department of Mathematics. Every student must take the final exam at the time scheduled.

Homework:

Homework will be assigned roughly biweekly. There will also be suggested problems, usually mentioned in class. These will not be graded, but have a good chance of appearing on a later test. Solutions to these will be provided in office hours upon request.
**Blackboard:** Blackboard will be used for course materials, homework and announcements.

**Course Grading Scale**

- 93 - 100 %  A
- 90 - 92.9 %  A-
- 87 - 89.9 %  B+
- 83 - 86.9 %  B
- 80 - 82.9 %  B-
- 77 - 79.9 %  C+
- 70 - 76.9 %  C
- 60 - 69.9 %  D
- 0 - 59.9 %  F