

MAT 661
Fall 2010

Introduction to Point Set Topology

Instructor: Professor Jack Ucci

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Office Hours: Tu 2 - 3, Th 2 - 3 and by appointment

Classes: Tu and Th 9:30 – 10:50 a.m., 233 Physics

Text: *Topology*, 2nd edition, by James R. Munkres

Course Description: We study properties of Topological Spaces and Continuous Maps. The point set material will be drawn from Chapters 2-5, 7 in Munkres book; time permitting, introductory topics from algebraic topology from Chapters 9 and 11, will also be covered. A tentative lecture schedule would be 5, 4, 6, 3, 6 lectures for the first five Chapters cited above and 4 lectures for the remaining material. Students are advised (a) to study the many examples provided by Munkres, and (b) to do as many problems as possible to acquaint themselves with the abstraction inherent in topology.

Grading Policy: There will be a midterm and a final. The midterm will cover Chapters 2, 3. The Final Exam will *cover the rest of the topics* (note these implicitly make use of the prior material). Each will count 50% of the grade.

Homework problems will be assigned and some will be collected for grading (which will *not* count toward your course grade). They will indicate how you are doing in the course and also how I grade. Although the homework problems do not enter into the grade, they nevertheless are the heart of (learning) the course.

Students are encouraged to make use of my office hours to discuss problem solutions and any other items of interest. You are welcome whenever I am in my office (which is often), so feel free to stop by at hours besides my official office hours.