

MAT 661 Syllabus – Fall 2014 Introduction to Topology

Instructor: Jack Ucci, 229B Physics, jjucci@syr.edu, 3-1492

Classes: Tu and Th 9:30 -10:50 115 Carnegie

Office Hours: TBA

Prerequisites: MAT 512 or graduate standing in Mathematical Sciences

Course Description:

The course will cover parts of Chapters 1, 2, 3, and 5 of **T. Lawson: Topology: A Geometric Approach**, which is freely available online at <http://u.math.biu.ac.il/~megereli/TGeometric.pdf>

Similar material can also be found in Chapters 2, 3, 9, 11, and 12 of **Munkres: Topology 2nd Edition**

Lawson replaces **Munkres** as the primary text for the course and as such represents a new emphasis on a geometrical approach to topology. **Munkres** will serve as a supplementary reference.

The topics will include topological spaces, continuous mappings, compactness, connectedness, path connectedness, separation axioms, metric spaces, quotient spaces, CW complexes, fundamental group, and the classification of 2-dimensional manifolds.

Exams/Problem Sets: There will be a written midterm exam in the middle of the course and a written final exam. Your course grade will be based on these exams. Problems will be assigned at regular intervals but will not count toward the grade.

Academic Integrity: See Syracuse University's Academic Integrity Policy at <http://academicintegrity.syr.edu/>

Students with Disabilities: If you believe you need an accommodation for a disability, please talk to me at the beginning of the semester or contact the Office of Disability (ODS) located in Suite 303 of 804 University Avenue, or call (315) 443-4498

Religious Observances Notification: Students who will be observing religious holidays during the semester are required to fill out their notification form on MySlice by the end of the second week of classes.