Instructor: Tyler Lawson Class location: 2-255, MWF 1pm-2pm Office: 2-171 Office phone: 3-4385 Office hours: Monday 2pm-4pm Email: tlawson@math.mit.edu Website: http://math.mit.edu/~tlawson/18.905.html

Course outline. This course is intended as a graduate-level introduction to the machinery of algebraic topology. Specifically, we will focus on singular homology and the dual theory of singular cohomology.

Prerequisites. The prerequisites for the course are basic point set topology (18.901 or equivalent) and algebra (18.701, 18.703 or equivalent).

Text. The textbook for this course is Allen Hatcher's *Algebraic Topology*. The text is freely available online, but the bookstore also sells bound copies. We will be focusing on chapters 2 and 3. Other texts you might find interesting or useful include the following.

A basic course in algebraic topology, by W. S. Massey. An introduction to algebraic topology, by J. J. Rotman. Elements of algebraic topology, by J. Munkres.

Exams. There are no exams for this course.

Assignments. Your grade for this course will be based on weekly assignments. Assignments are due each Wednesday in-class. There will be 12 assignments in all. Assignments and outlines of their solutions will be posted to the course website.

Grading. Your lowest assignment grade will be not be counted towards your final grade. The remaining assignments will be given equal weight.

Late policy. No late assignments will be accepted without *prior* arrangement.