

Algebraic Topology II

Math 246B, Spring 2009

Instructor: Julie Bergner

Class: MWF 9:10-10:00 am, Surge 284

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Office hours: MWF 10:00-11:00 am, or by appointment

Textbook: *Algebraic Topology*, by Allen Hatcher. Note that the textbook can be downloaded from the author's web page:

<http://www.math.cornell.edu/~hatcher/AT/ATpage.html>

Course Objectives: In this course, we will look at basic ideas in homotopy theory, including higher homotopy groups, weak homotopy equivalences, Eilenberg-Mac Lane spaces, and relationships between the homotopy groups and homology and cohomology groups of a space. Other topics which may be included are stable homotopy groups, fiber bundles, and spectral sequences. We will begin with chapter 4 of Hatcher's book, but we certainly won't get to everything there and may cover some topics not found there.