

ALGEBRAIC TOPOLOGY I / MATH 537

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Textbook: Algebraic Topology by Allen Hatcher, Cambridge University Press (2002). Our library has a copy of this book. Moreover, the book is available on line at Allen Hatcher's homepage (<http://www.math.cornell.edu/~hatcher/>). You may also use the books by G. Bredon (Geometry and Topology), Greenberg and Harper, Massey and the book by Spanier as reference books.

Content: I am planning to cover Chapter 0, 1 and 2 of Hatcher's book 'Algebraic Topology'. Basic constructions for algebraic topology such as homotopy and CW complexes; fundamental group and covering spaces and finally homology groups.

Grading: Grading will be based on homework assignments, take home exams and an oral final exam.