

Math 6340 Spring 2014: Course Syllabus

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Overview. We will study homology and cohomology theories. We will then investigate modern applications of algebraic topology to various scientific problems.

Literature.

(1) Required textbook

(a) *Algebraic Topology* by Allen Hatcher

(2) References

(a) *Topology and Geometry* by Glen Bredon

(b) *Algebraic Topology: A First Course* by William Fulton

(c) *An Introduction to Algebraic Topology* by Joseph Rotman

Problem sets. You will be given problem sets at an approximate rate of 1 set every two weeks. Several randomly chosen problems from each set will be graded. No late submissions will be accepted.

Grading. Your course grade will be based on problem sets.

Digital interfacing.

(1) Course material such as problem sets, reading assignments, solutions, and announcements will be available here:

<http://www.math.uh.edu/~ott/>

(2) Scores on problem sets will be accessible via the Blackboard system.