

Math 644: Algebraic Topology II

Spring 2017

Lecturer: Zhizhang Xie

Lectures: TR 11:10-12:25pm, CVE 136

Office: Blocker 633C

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Office Hours: Monday 1:30 - 3:30pm or by appointment

Prerequisites: Math 636 (Topology I), Math 637 (Topology II), and Math 643 (Algebraic Topology I) or equivalent.

Course Outline:

This is the second semester of algebraic topology sequence. We plan to cover some basic homotopy theory and its connections with (co)homology theory. If time permits, we will also cover additional topics, such as topological K-theory and spectral sequences. The homotopy theory part is mostly Chapter 4 of Hatcher's Algebraic Topology book.

Textbooks:

Allen Hatcher, *Algebraic Topology*, Cambridge. This book is available at Hatcher's personal homepage: <https://www.math.cornell.edu/~hatcher>

Course Homepage:

Homework assignments and other course information will be posted at the course webpage: <http://www.math.tamu.edu/~xie/teaching.html>

Grading Standards:

Final grades will be determined based on:

Homework	Final
50%	50%

Letter Grades			
A	B	C	D
$\geq 90\%$	80% - 89%	70% - 79%	60% - 69%

Policies:

- **Make-up policies:** Students must make arrangements in advance if they expect to miss an exam or quiz. Exam absences due to recognized university-related activities, religious holidays, verifiable illness, and family/medical emergencies will be dealt with on an individual basis. In all cases of absence from exams a written excuse is required. Ignorance of the time and place of an exam will not be accepted as an excuse for absence.
- **Academic integrity:** The usual rules of academic integrity apply. In particular, the Aggie Honor Code “An Aggie does not lie, cheat or steal, or tolerate those who do” should be self-evident, see <http://aggiehonor.tamu.edu/>

Students may, and are encouraged to, work together and discuss homework problems with each other. However, copying work done by others is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy.

- **Disabilities:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit <http://disability.tamu.edu>