

Math 572 Spring 2011
Introduction in Algebraic Topology

Syllabus

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Class times: TTh 12:00-1:15 in REC 309

Homepage for the course: <http://www.math.purdue.edu/~rkaufman/MA572sp11/>

Office hours: T Th 10:30-11:30 and by appointment.

If you have a conflict with these times, we can arrange for another time to meet.

Textbook: Elements of Algebraic Topology by James R. Munkres

Westview Press; New Edition (December 1, 1993)

ISBN-10: 0201627280, ISBN-13: 978-0201627282

Course description: The course is an introduction to algebraic topology. The focus will be on homology and cohomology theory. This is a basic important subject which is used in many fields besides topology, such as differential, symplectic and algebraic geometry, number theory, mathematical physics, (harmonic) analysis, operator theory, etc..

We will treat the classical simplicial and singular homology and cohomology, but we also plan to cover CW complexes and deRham forms.

Required Work: Besides the expected participation in class there will be homework assignments and a take home final or written /oral project at the end of the semester. The homework will be listed on the webpage.

Academic Adjustments for Students with Disabilities

Students who have been certified by the [Office of the Dean of Students-Adaptive Programs](#) as eligible for academic adjustments should go to Undergraduate Services Office (MATH 242) **with their certification letter** and request an Information Sheet for this semester, that explains how to proceed this semester to get these adjustments made in Mathematics courses. This should be done during the first week of classes or as soon as the student receives their letter. Only students who have been certified by the ODOS-Adaptive Programs and who have requested ODOS to send their certification letters to their instructors are eligible for academic adjustments.

Students who are currently undergoing an evaluation process to determine whether they are eligible for academic adjustments, are encouraged to find out now what procedures they will have to follow when they are certified, by requesting the above mentioned Information Sheet from the Undergraduate Services Office.

Large print copies of the Information Sheet are available from the Undergraduate Services Office upon request.