

Course Syllabus
Math 560.02
Algebraic Topology
3 Credits
Spring, 2007

1. **Class meeting information:** Class meets in 219 LDB
Monday, Wednesday, and Friday 9:00 - 9:50 am
2. **Professor:** Dr. Jacqueline Jensen
Office: 410 Lee Drain
Office Phone: 294-3517
e-mail: jensen@shsu.edu
web-page: http://www.shsu.edu/~mth_jaj
3. **Office Hours:**
Monday 8:30 - 9:00 am
Tuesday 1:30 - 2:00 pm
Wednesday 8:30 - 9:00 am and 1:00 - 2:00 pm
Thursday 1:30 - 2:00 pm
and, of course, by appointment.
4. **Course Description:** Algebraic Topology studies how tools from abstract algebra are used to study topological spaces. The goal of algebraic topology is to further study and classify topological spaces. Students taking Algebraic Topology should have completed Math 477 (Modern Algebra) and Math 632 (Topology). Class will be primarily lecture-oriented.
5. **Course Objectives:**
Students completing this course should have mastery of the following major concepts. Other techniques and ideas will also be covered.
 - the fundamental group
 - covering spaces
 - deformation retracts
 - the Seifert-van Kampen theorem
 - free groups
 - other topics as time allows
6. **Required Textbook:**
Topology (2nd Edition) by James Munkres. ISBN: 0131816292.
7. **Required Supplies:** None.
8. **Attendance Policy:** Students are expected to attend every class. If class must be missed, the student is expected to get the notes from a classmate, and to check the web-page for announcements and updated assignments. The professor will keep a record of attendance.
Tardiness: Students are expected to arrive to class on time. If a student is perpetually late, they will be asked to not attend class unless they arrive on time. If tardiness becomes a problem for the class as a whole, people who arrive late will not be permitted to enter the class. If this stricter policy becomes necessary, there will be an announcement made in class and posted on the web-page.

9. **Assignments:**

- (a) **Homework:** Homework will be assigned in class each day. Homework will be collected, with due dates to be announced in class. Assignments can be found online at:

http://www.shsu.edu/~mth_jaj/math560/due.s07.html

I quote from the Introduction to Analysis syllabus from my class at University of Oregon written by T. Palmer:

“Some of the homework problems are HARD. Thus you should read them well in advance of the time they are due, and think about them whenever you have time until you see a solution. You are encouraged to cooperate on homework. However this does not mean copying another person’s solutions. It does mean discussing ideas about how to do the problems. You MUST give written credit on your paper to anyone who supplied a key idea.”

- (b) **Class participation:** Students are encouraged to attend every class and participate actively by asking questions both in and out of class.
10. **Exams:** There will be two exams during the semester. They are tentatively scheduled to occur on **Friday, February 9** and **Friday, 30 March**. Any changes to this schedule will be announced in class and posted on the web-page. If a student misses an exam, the student will be allowed to replace that exam score with their score on the final exam if the student takes and passes the next exam at the regularly scheduled time.

The **final exam** will be held on Wednesday, 7 May from 8:00 am - 10:00 am. It will be comprehensive.

11. **Grading Plan:** The course grade is based on:

Homework	Exam 1	Exam 2	Final Exam
25%	20%	25%	30%

12. **Student Syllabus Guidelines:** You may find online a more detailed description of the following policies. These guidelines will also provide you with a link to the specific university policy or procedure: <http://www.shsu.edu/syllabus/>
13. **Academic Dishonesty:** Students are expected to maintain honesty and integrity in the academic experiences both in and out of the classroom. See Student Syllabus Guidelines.
14. **Classroom Rules of Conduct:** Students are expected to assist in maintaining a classroom environment that is conducive to learning. Students are to treat faculty and students with respect. Students are to turn off all cell phones while in the classroom. Under no circumstances are cell phones or any electronic devices to be used or seen during times of examination. Students may tape record lectures provided they do not disturb other students in the process.
15. **Student Absences on Religious Holy Days:** Students are allowed to miss class and other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. Students remain responsible for all work. See Student Syllabus Guidelines.
16. **Students with Disabilities Policy:** It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should visit with the Office of Services for Students with Disabilities located in the Counseling Center. See Student Syllabus Guidelines.
17. **Visitors in the Classroom:** Only registered students may attend class. Exceptions can be made on a case-by-case basis by the professor. In all cases, visitors must not present a disruption to the class by their attendance. Students wishing to audit a class must apply to do so through the Registrars Office.
18. **Additional Information** All information on this syllabus is subject to change. Any changes will be announced in class.