MATH 432/532 – Topology **Spring 2013**
MWF 9:00-9:50am
Room: PSYCH 204

Instructor: Daniel Schultheis
Office Hours: Wednesday 1-3pm in my office
Thursday 12-1pm in Math 220
By appointment.
Office: Math 510
Email: dschultheis (at) math (dot) arizona (dot) edu
Our Course Webpage: http://math.arizona.edu/~dschultheis/teaching/m432sp2013

Text: Topology, Second Edition by James R. Munkres, published by Prentice Hall.
We will cover select sections from Chapter 1, most of chapters 2,3,and 4, and various special topics as time permits.

Attendance: Students are expected to attend every scheduled class and to be familiar with the University Class Attendance policy as it appears in the General Catalog. Students not in attendance for the first two days of class will be dropped from the class. It is the student's responsibility to keep informed of any announcements, syllabus adjustments or policy changes made during scheduled classes, by email, or on our course webpage. In general I will email the class and post announcements online. Students are expected to behave in accordance with the Student Code of Conduct and the Code of Academic Integrity. The guiding principle of academic integrity is that a student's submitted work must be the student's own. University policies can be found at http://deanofstudents.arizona.edu/policiesandcodes.

Homework: (30% course grade) Homework will be submitted weekly in written (or typewritten) format. Assignments and expected reading will be posted via a link on our course webpage, and will be due at the end of class on Friday. This is an upper division mathematics course, so presentation and thorough explanation will be taken into account.

Participation/Presentations: (10% course grade) Each week I will also provide a short list of "presentation problems". These problems may explore proofs omitted in lecture, interesting examples, and relationships between the various definitions. On Fridays, students will present their work on these problems to the class. The ability to explain your work, especially on open-ended problems, is a very valuable skill. Each student will be responsible for presenting 3 of these problems during the semester, and grades will be assigned for this component of the class on that basis.

This aspect of the course is intended to be very interactive. Presenters should come with complete (or as complete as possible) solutions, and the rest of the class will have the opportunity to ask questions and provide comments.

Midterm: (25% course grade) The single in-class exams is tentatively scheduled for **Wednesday, February 27th.** All electronic devices must be turned off during all exams.

Final Exam: (35% course grade) The final exam is scheduled for **Thursday, May 9th, 10:30am-12:30pm.** Additional information on location and format will be provided later in the semester.

Missed Exam Policy:
In general, there will be no make-up exams in the course. However, university policy specifically mentions missing exams due to advance knowledge of religious observance or university-related travel. Furthermore, in complex and unusual circumstances, which are beyond your control, a make-up exam may be given on a case-by-case basis. This will require providing a detailed account of the situation and

supporting documents. Approval in these cases is at the sole discretion of the instructor and/or the dean of students.

Grades: Grades will be assigned according to the percentages listed above. Grades will be no lower than those set forth in the following table

90% to 100%	A
80% to 90%	B
70% to 80%	C
60% to 70%	D
0% to 60%	E

The precise cutoffs for specific grades will be determined only after all grades are in at the end of the semester. Grading cutoffs will likely differ for those enrolled in Math 432 versus Math 532.

Students with disabilities:
If you anticipate issues related to the format or requirements of this course, please meet with your instructor to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Resources (621-3268; drc.arizona.edu). You should notify your instructor of your eligibility for reasonable accommodations by Wednesday, January 16. At that point, you and your instructor can plan how best to coordinate your accommodations.

Students withdrawing from the course:
You may withdraw from the course with a deletion from your enrollment record through February 5 using UAccess. You may withdraw with a grade of "W" or change to Audit through March 6 using a change of schedule form with your instructor's signature. The University allows withdraws after March 6, but only with the Dean's signature. Late withdraws are dealt with on a case by case basis, and requests for late withdraw without a valid reason may or may not be honored.

Incompletes:
The grade of I will be awarded if all of the following conditions are met:

1. The student has completed all but a small portion of the required work.
2. The student has scored at least 50% on the work completed.
3. The student has a valid reason for not completing the course on time.
4. The student agrees to make up the material in a short period of time.
5. The student asks for the incomplete before grades are due, 48 hours after the final exam.

Computing Resources: Information about using computers on campus, setting up a UA email account, and computer support can be found at http://www.oscr.arizona.edu. A list and map of open access computing facilities on campus can be found at http://www.oscr.arizona.edu/maps.

Disclaimers: Of course, small changes to this syllabus may become necessary as the semester proceeds. If that becomes necessary, your instructor will do everything possible to provide ample notification.

This class is often considered *very* abstract. Additionally, those students without much prior experience in upper level mathematics may find the pace quick. Unless otherwise noted, students are responsible for all material covered in the relevant sections of the textbook, even if the instructor does not present all material in class. Finally, the small class size should promote discussion and participation. If something doesn't make sense, speak up!