

Math 5713
Section: 001

Topology II
MWF 11:50 – 12:40
SCEN 203

Spring 2017
Prof. Matthew Clay

Office: SCEN 337

Email: mattclay@uark.edu

Phone: 575-5195

Course Website: <http://comp.uark.edu/~mattclay/Teaching>

Office Hours: Monday: 2:00 – 3:00, Tuesday: 9:00 – 10:00 and Friday: 2:00 – 3:00

If you are unable to use any of the above times, please make an appointment to see me.

Texts:

- *Algebraic Topology* by Allen Hatcher PRIMARY
- *Topology: A First Course* by James R. Munkres (2nd ed)

Prerequisites: MATH 5703 and graduate standing in mathematics or statistics, or departmental consent.

Goals: This course is a continuation of Topology I. We will study the fundamental group, covering spaces, homology and cohomology theories and Poincaré duality. Select topics in higher homotopy theory will be covered as time permits. This course, together with MATH 5703, will prepare the student to take the topology qualifying exam.

Academic Honesty Policy: As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible when intellectual honesty and individual integrity prevail. Each University of Arkansas student is required to be familiar with and abide by the University's "Academic Integrity Policy" which may be found at <http://honesty.uark.edu>. Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor.

Homework: Homework is assigned and collected weekly. Problems will be posted on the course webpage. Solutions are to be submitted using \LaTeX .

Course Grade:

- Participation - 10%
- Homework - 40%
- Midterm Exam (Friday, March 3) - 20%
- Final Exam (Wednesday, May 10, 12:45 – 2:45 PM) - 30%

Letter grades: $A : 100 - 90$; $B : 89 - 80$; $C : 79 - 70$; $D : 69 - 60$; $F : 59 - 0$

Important Dates

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| Tuesday, January 17 | Classes Start |
| Monday, January 23 | Last day to drop without W |
| Friday, March 3 | Midterm Exam (20% of grade) |
| Monday, March 20 – Friday, March 24 | Spring Break |
| Friday, April 21 | Last day to drop with W |
| Thursday, May 4 | Last day of classes |
| Wednesday, May 10 | Final Exam (12:45 – 2:45 PM) (30% of grade) |

See <http://calendars.uark.edu> for the complete academic calendar and final exam schedule.

Special Accommodation: Students who are registered with the Center for Educational Access must notify the instructor in writing by the end of the first week of class, or within one week of registering with CEA.

Inclement Weather Policy: Class will be held if the University is officially open. Allowances will be made if you are unable to safely reach the campus, but, bravely, class will go on! Do not call the Math office for inclement weather information. Instead, you should call the following telephone number: 575-7000.

Disclaimer: Information on this syllabus is subject to change. Any change will be announced in lecture.