

Math 5703  
Section: 001

**Topology I**  
MWF 10:45 – 11:35  
SCEN 322

Fall 2016  
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:**

- *Topology: A First Course* by James R. Munkres (2nd ed) PRIMARY
- *Notes on Introductory Point-Set Topology* by Allen Hatcher
- *Topology*, by John G. Hocking and Gail S. Young

**Prerequisites:** MATH 4513 and graduate standing in mathematics or statistics, or departmental consent.

**Goals:** This course is an introduction to topology. We will study the basic elements of point-set topology (compactness, connectedness and continuity), separation properties and their applications, complete metric spaces and the fundamental group of topological spaces. This course, together with MATH 5713, 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 (Wednesday, October 19) - 20%
- Final Exam (Monday, December 12, 10:15 AM – 12:15 PM) - 30%

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

### Important Dates

|   |   |
|---|---|
| Monday, August 22                               | Classes Start                                   |
| Monday, September 2                             | Last day to drop without W                      |
| Monday, September 5                             | Labor Day Holiday                               |
| Monday, October 17<br>– Tuesday, October 18     | Fall Break                                      |
| Wednesday, October 19                           | Midterm Exam (20% of grade)                     |
| Friday, November 18                             | Last day to drop with W                         |
| Wednesday, November 23<br>– Friday, November 25 | Thanksgiving Break                              |
| Thursday, December 8                            | Last day of classes                             |
| Monday, December 12                             | Final Exam (10:15 AM – 12:15 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.