

Math 5703  
Section: 001

**Topology I**  
MWF 10:45 – 11:35  
SCEN 610/Remote Delivery

Fall 2020  
Prof. Matthew Clay

**Office:** SCEN 326

**Email:** mattclay@uark.edu

**Phone:** 575-5195

**Office Hours:** All office hours will be held via Blackboard Collaborate Ultra.

Monday: 12:00 – 1:00, Wednesday: 1:00 – 2:00 and Thursday: 11:00 – 12:00

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/REQUIRED
- *Notes on Introductory Point-Set Topology* by Allen Hatcher RECOMMENDED
- *Topology*, by John G. Hocking and Gail S. Young RECOMMENDED

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

**Goals:** This course is an introduction to topology. You will learn the basic elements of point-set topology (compactness, connectedness and continuity), separation properties and their applications (including the Urysohn Lemma), 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.

**Collaborate Ultra:** After our first class, we will shift to remote delivery via Collaborate Ultra.

1. You must sign in to the Collaborate Ultra session by 10:45 AM to be on time for class.
2. The Collaborate Ultra sessions are recorded.
3. Improper classroom behavior is not tolerated within Collaborate Ultra sessions and may result in a referral to the Office of Student Conduct.
4. You can contact the Help Desk at <http://help.uark.edu> or 479-575-2905 if you have any technical issues accessing Collaborate Ultra.

Access to a reliable Internet connection is required for this course. A problem with your Internet access may not be used as an excuse for late, missing, or incomplete coursework. If you experience problems with your Internet connection while working on this course, it is your responsibility to find an alternative Internet access point, such as a public library or Wi-Fi hotspot.

**Unauthorized Use of Class Recordings:** Class sessions will be recorded by the instructor and made available to students through Blackboard. These recordings may be used by students ONLY for the purposes of the class. Students may not download, store, copy, alter, post, share, or distribute in any manner all or any portion of the class recording, e.g. a 5-second clip of a class recording sent as a private message to one person is a violation of this provision. This provision may protect the following interests (as well as other interests not listed): faculty and university copyright; FERPA rights; and other privacy interests protected under state and/or federal law. Failure to comply with this provision will result in a referral to the Office of Student Standards and Conduct for potential charges under the Code of Student Life. In situations where the recordings are used to gain an academic advantage, it may also be considered a violation of the University of Arkansas' academic integrity policy.

Recording, or transmission of a recording, of all or any portion of a class by a student is prohibited unless the recording is necessary for educational accommodation as expressly authorized and documented through the Center for Educational Access with proper advance notice to the instructor.

**Homework:** Homework is assigned and collected weekly. Problems will be posted on Blackboard. Solutions are to be prepared using  $\LaTeX$  and will be submitted via Gradescope. A template for homework submissions will be provided.

**Course Grade:**

- Participation - 10%
- Homework - 40%
- Midterm Exam (Wednesday, October 21) - 20%
- Final Exam (Monday, December 14, 10:15 AM – 12:15 PM) - 30%

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

All scores posted on or before Dead Day will be deemed accurate unless a possible error is brought to the attention of the instructor before the scheduled final exam.

**Important Dates**

Monday, August 24	Classes Start
Friday, September 4	Last day to drop without W
Monday, September 7	Labor Day
Wednesday, October 21	Midterm Exam (20% of grade)
Friday, November 20	Last day to drop with W
Monday, November 23 – Friday, November 27	Thanksgiving Holiday
Thursday, December 10	Last day of classes
Monday, December 14	Final Exam (10:15 AM – 12:15 PM) (30% of grade)

See <http://registrar.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.

**Disclaimer:** Information on this syllabus is subject to change. Any change will be announced on Blackboard and during the regular meeting time.