

Math 2603  
Section: 002

**Discrete Mathematics**  
MWF 9:40 – 10:30 AM  
Remote Delivery

Fall 2020  
Prof. Matthew Clay

**Office:** SCEN 326

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**Phone:** 575-5195

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

**Text:** *Discrete Mathematics*, by Sandi Irani, zyBooks. To obtain the text, click on the zyBooks link under the “Contents” tab in Blackboard and subscribe. Do not go to the zyBooks website and create a new account.

**Prerequisites:** Math 2554 with a grade of C or better.

**Goals:** You will learn the language and tools of logic, set theory, combinatorics and graph theory. By the conclusion of the semester you will be able to construct elementary mathematical arguments involving induction, contradiction and counting. The course will cover the majority of Chapters 1 – 12 of the text.

**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.

**Class Delivery/Participation:** The course will follow a flipped classroom model.

1. You will watch several videos before the scheduled meeting time. The videos will be 5–10 minutes long and the total duration will be 30 – 50 minutes per class. The videos will be posted on Blackboard at least 72 hours in advance.
2. Class will meet via Collaborate Ultra at the scheduled time.
3. At the scheduled meeting time, the first 10 minutes will be used to answer questions about the assigned material.
4. Next, the class will break into groups to work on problems related to the material. The instructor will pop in and out of the groups.
5. The last 5 minutes will be reserved for concluding remarks.

Both attendance and completion of the assigned in-class problems are expected. After three unexcused absences, points will be deducted from participation grade.

**Collaborate Ultra:** Here are some additional items regarding the Collaborate Ultra sessions.

1. You must sign in to the Collaborate Ultra session by 9:40 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.

**Online Assignments:** There will be weekly assignments administered online through the text (called *participation* and *challenge activities* in the text). Each section contains some additional exercises at the end. It is assumed that you have attempted each problem.

*Homework assignments are very important to the learning process. Math is not a spectator sport, the only way to get better is to practice.*

**Exams:** There will be four exams during the semester and a final exam. A make-up for any exam will not be given without a compelling reason and the instructor's *prior consent*. *You must inform the instructor before the exam* if you are to miss it due to illness, University related activity or religious holiday.

**Calculators:** Calculators are not permitted on any exam.

**Course Grade:**

- Participation - 15%
- Online Assignments (Weekly) - 15%
- Exam 1 (Friday, September 11) - 13%
- Exam 2 (Friday, October 2) - 13%
- Exam 3 (Friday, October 23) - 13%
- Exam 4 (Monday, November 16) - 13%
- Final (Wednesday, December 16, 10:15 AM – 12:15 PM) - 18%

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
Friday, September 11	In class exam 1 (13% of grade)
Friday, October 2	In class exam 2 (13% of grade)
Friday, October 23	In class exam 3 (13% of grade)
Monday, November 16	In class exam 4 (13% 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
Wednesday, December 16	Final Exam (10:15 AM – 12:15 PM) (18% 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.