Sets and Logic
MHF 3202
Summer A 2023

Instructor:	Corey Stone
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Office Hours:	MW, 12:30pm - 1:30 pm LIT 441 or by appointment
Lecture:	MTWRF, 11:00am - 12:15pm LIT 223

Prerequisites MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C; MAS 3300 or MHF 3202 recommended.

Course Description Examples of sets, operations on sets, set algebra, Venn diagrams, truth tables, tautologies, applications to mathematical arguments and mathematical induction.

Course Goals This course is an introduction to the formal language of mathematics. The goal is to learn how to read, understand and write your own rigorous and precise mathematical arguments. You may be familiar with most of the factual content discussed in the examples, but the novelty is the mathematical rigor and the skill of formal writing.

Required Materials There are no required textbooks for this course, but I will be roughly following the *Book of Proof* by Richard Hammack, which can be accessed for free online here: https://www.people.vcu.edu/ rhammack/BookOfProof/

E-Learning Canvas: I will put homework assignments, announcements, grades, and all other course material on Canvas.

You are responsible for verifying that your grades are accurate. **You have one week after a score has been posted to contact me if you believe there has been a recording error. There is no grade dispute at the end of the semester.**

Tests There will be two exams throughout the course. The midterm exam will be on Friday, June 2nd during class. The final will be on Friday, June 23rd during class.

Homework There will be 5 graded homework asssignments. Homework will generally be assigned on Mondays and at the start of class the following Monday. You are allowed and encouraged to discuss the assignments your classmates on the assignments. However, you are expected to actually write up your solutions on your own. Plagiarized solutions will result in a 0 on that assignment.

Class Attendance Attendance will be recorded each non-exam day of class and will be worth 1 point each day. The maximum attendance grade at the end of the course is 25pts.

Grading

Attendance: 1 pt per day, 25 pts total

Homework: 20pts each, 100pts total

Exam 1: 50 pts

Exam 2: 50 pts

There are 225 total points available in the course.

Grading Scale

90-100 A	87-90 A-	84-87 B+	80-84 B
77-80 B-	74-77 C+	67-74 C	64-67 C-*
60-64 D+	57-60 D	54-57 D-	0-54 E

NOTE: I will not review disputed points at the end of the semester. All grade concerns must be settled within one week of the return of the paper.

Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

Students with Learning Disabilities

Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC), www.dso.ufl.edu/drc/. That office will provide a documentation letter via email to your instructor. This must be done as early as possible in the semester, **at least one week before the first exam**, so there is adequate time to make proper accommodations.

Diversity, Equity, and Inclusion It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength, and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, religion, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In particular, I will gladly honor your request to address you by an alternate/ preferred name or gender pronoun. Please advise me of this preference early in the semester so I may make appropriate

Academic Honesty Guidelines

All students are required to abide by the Academic Honesty Guidelines which have been accepted by the University. The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust, and respect. Students are expected to pursue knowledge with integrity. Exhibiting honesty in academic pursuits and reporting violations of the Academic Honesty Guidelines will encourage others to act with integrity. Violations of the Academic Honesty Guidelines shall result in judicial action and a student being subject to the sanctions in paragraph XIV of the Student Code of Conduct. The conduct set forth hereinafter constitutes a violation of the Academic Honesty Guidelines (University of Florida Rule 6C1-4.017).

The Mathematics Department expects you to follow the Student Honor Code. We are bound by university policy to report any instance of suspected cheating to the proper authorities. You may find the Student Honor Code and read more about student rights and responsibilities concerning academic honesty at the link www.dso.ufl.edu/sccr/.

In addition, we remind you that lectures given in this class are the property of the University/faculty member and may not be taped without prior permission from the instructor and may not be used for any commercial purpose. Students found to be in violation may be subject to discipline under the Student Conduct Code.

Note: Information in this syllabus is subject to change. Any changes will be clearly announced in class or through e-mail.