

Math 3200: Introduction to Higher Mathematics

Dr. Emilie Wiesner Fall 2006

About the Course

Math 3200 focuses on mathematical proof. We will practice developing rigorous arguments and writing clear proofs. (These skills are related, but they are not the same!) Our topics will be some of the fundamental tools of mathematics: logic, sets, functions, and relations. Depending on time, we may also look at one or two additional topics.

The textbook for the course is *An Introduction to Abstract Mathematics* by R. Bond and W. Keane.

My Contact Information

Office: Boyd 320
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Website: www.math.uga.edu/~wiesner

Office Hours: Mondays 4-4:45PM, Wednesdays 1-2PM, Thursdays 9-10AM, and by appointment

Email Contact: Feel free to email me. I will respond to emails **within one business day**.

Expectations and Assignments

- *Participation, Daily Homework, and Reading*

In this class, students will regularly present proofs, critique other students' proofs, and discuss the course material. You will get the most out of this class if you actively participate.

There will be a daily homework assignment, which will form the basis of class discussion. You should be prepared to present the daily homework at the beginning of the next class after it is assigned.

I will also suggest readings from the text prior to covering that material in class. The reading provides a supplement to what we do in class.

- *Graded Homework*

There will be a weekly homework assignment. Graded homework should be typed. (You may hand-write any mathematical symbols or pictures.) Homework must be turned in by 3PM the day it is due. If you are not in class, it is your responsibility to get homework assignments to me. **No late homework will be accepted.**

- *Midterm Exams and the Final Exam*

There will be 3 midterm exams, given on the following dates:

- September 20

- October 25
- December 1

If you will be unable to attend one of the exams, please contact me as soon as possible. The final exam will be cumulative.

Academic Honesty

I encourage you to discuss the daily homework and graded homework with your classmates and with me. However, you should write your homework on your own and in your own words. You should not copy anyone's work or allow anyone to copy your work.

All work for this course must meet the standards contained in "A Culture of Honesty." You are responsible for informing yourself about those standards. More information about academic honesty can be found at <http://www.uga.edu/ovpi/honesty/acadhon.htm>.

Grades

- 45 points: Graded Homework
- 30 points each: Midterm Tests
- 60 points: Final Exam
- 4 points: Participation
- 1 point: Completion of Course Evaluation.

Evaluations for this course are done online at the end of the semester. The evaluations are completely anonymous and I will not see them until after I have submitted your final grades. I will receive a list of students who have completed the evaluation—**but not your comments**—at the end of the semester so that I can factor this into your grade.

There are a total of 200 possible points for the course. Your final grade will be determined as follows:

Grade	Final Score	Grade	Final Score
A	≥ 188	C+	≥ 152
A-	≥ 180	C	≥ 145
B+	≥ 173	C-	≥ 138
B	≥ 166	D	≥ 120
B-	≥ 159		

This syllabus is a general plan for the course. However, deviations may be necessary and will be announced to the class.

Participation

Preparation	2	Is prepared to discuss daily homework throughout the semester.
	1	On multiple occasions, is unprepared to discuss daily homework.
	0	Frequently is unprepared to discuss daily homework.
Class Discussion	2	Regularly participates in the conversation by offering ideas or asking questions.
	1	Occasionally participates in the conversation by offering ideas or asking questions.
	0	Does not participate in the class discussion.

All students are expected to be courteous and respectful to others during any class discussion.