Algebraic Topology Math 629 aka 722

Fall, 2019 MW 1:30-2:45, Exploratory Hall 4106

Contact Info

Professor: Rebecca Goldin Office: Exploratory Hall 4214 Office Hours: I appreciate a heads-up when you plan to come to office hours! I am usually here, but I might step out if I don't know in advance. Monday 9:00-10:00am and Fridays 1:30-2:30pm

Prerequisite

This is a graduate level introductory course to algebraic topology. Students should be familiar with basic point set topology (MATH 631) and basic group theory (MATH 621). If you have had these courses at an undergraduate level, you may also take this course. This is a proof-based course, so students should be comfortable with writing extensive proofs.

Text

The text for this course is *Algebraic Topology* by Allen Hatcher. It is <u>available</u> <u>electronically</u> for free. You can also buy the book, and are encouraged to do so (though the author receives no royalties, in exchange for making the book free electronically). We will roughly be covering material from Chapters 0-2. Additional good references are Munkrees' books, Topology (for Chapter 1) and Elements of Algebraic Topology (for Chapter 2).

Course Content

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Test Dates

There is no midterm exam for this course. Problem sets are taken very seriously! The final exam will occur on Wednesday, December 11, 1:30-4:15pm

Grading

The grade in this course will be based on problem sets and exams. Class attendance is not required, though if you skip class you will experience less leniency regarding late assignments or borderline grades. There will be one final exam and approximately twelve problem sets over the semester. The grade will be determined by: 30% First n/2 problem sets 40% Last n/2 problem sets 30% Final exam

where *n* is the number of problem sets.

Problem Sets

There will be approximately 12 problem sets, and you will always have a week or more to complete them.

Disability statement

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703.993.2474. All academic accommodations must be arranged through that office.

Honor Code

The University Honor Code is to be followed at all times. Sharing information of any kind about exams or quizzes is prohibited. Any violations will be sent to the Honor Committee and will result in a grade of zero.