MAT 6932, Advanced Topics in Topology 2

Time and Location
M W F Period 8 (3:00-3:45pm), Little Hall room TBA

Description and Goals
In this course we will introduce some powerful mathematical tools whose origins lie in algebraic topology but which have been useful in many other areas and have become objects of study themselves. Specifically, we will learn about Category Theory, Homological Algebra and Spectral Sequences. Each of these topics provides a formal framework for organizing mathematical structures and computations, and is an important tool in modern mathematics.

Prerequisites
MTG 6347 Topology 2 or MAS 6332 Algebra 2, either previously or concurrently, or permission from instructor.

Please contact me if you have any questions and/or requests!

Textbook
An Introduction to Homological Algebra, Second Edition, by Joseph J. Rotman. Available from the UF library as an eBook download, and is also reasonably priced for a print copy.

Signing up for the course
This course is controlled by the math department. You need to provide Stacie Austin or Sandy Gagnon with your name and UF ID to be added to the section before you can enroll in the course.

Syllabus

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