

Alexander Dranishnikov
(<https://people.clas.ufl.edu/dranish/>)
Department of Mathematics

MTG6347/MAT4930 TOPOLOGY II

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Text:

“*Algebraic Topology*” by Allen Hatcher

Schedule and Room:

MWF 6 LIT 217

Grading:

20%Presentation+40%HWQuizzes+40%Final; A if >85, B+ if > 80, B if > 70, C+ if > 65, C if > 50, D+ if >40, D if >30.

One in class presentation, three quizzes based on the Homework, the home-taken Final; no make-ups.

Home work is not graded. Quizzes consist of homework problems.

Extra credit: up to 10 pts for extra presentation in class, up to 5 pts for solving a * rated homework problem.

Attendance is strictly recommended.

Office Hours:

MW7 LIT 424

Description of the Course:

Spring-2024 (Chapter 2-3)

Cellular Homology

Mayer-Vietoris Sequence

Homology with coefficients

Coefficients Long Exact Sequence

Tensor and Tor products

Universal Coefficient Formula (UCF)

Kunneth Formula

Axiomatic approach to Homology

Cohomology

Universal Coefficient Theorem (UCT)

Cup Product

Cohomology Ring

Kunneth Formula for Cohomology

Orientation and Homology

Cohomology with compact supports

Cap Product

Poincare Duality

Lefschetz Duality

Alexander Duality

- Homework, Presentations, and Extra Credit (<https://people.clas.ufl.edu/dranish/files/set24.pdf>)
- Solutions to the Q1 (<https://people.clas.ufl.edu/dranish/files/quiz1S24sol.pdf>)
- Solutions to the Q2 (<https://people.clas.ufl.edu/dranish/files/quiz2S24.pdf>)
- Solutions to the Q3 (<https://people.clas.ufl.edu/dranish/files/quiz3F23sol.pdf>)
- FINAL (<https://people.clas.ufl.edu/dranish/files/final24S.pdf>)
- Solutions to the Final (<https://people.clas.ufl.edu/dranish/files/finalS24sol.pdf>)
- Announcements:

Current Standing:

- Sections 15186/14583 (<https://people.clas.ufl.edu/dranish/files/resultsS24.pdf>)

Statement:

- Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Edit (<https://people.clas.ufl.edu/dranish/wp-admin/post.php?post=737&action=edit>)



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