

MATH 574 SYLLABUS – SPRING 2024

ROBERT GURALNICK

CLASS: MATH 510b

CLASS #: 39724R

Room: KAP 138

Time: MWF 12:00 - 12:50 (subject to change)

Instructor: Robert Guralnick

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Email: guralnic@usc.edu

Office Hours (subject to change): MW 1 - 2:30 subject to change

Homework and other information posted

Required Text: Hungerford, Algebra; Recommended, Lang, Algebra

Course Description: We will cover commutative algebra, integrality, Hilbert Basis Theorem, Nullstellensatz, Zariski Topology, Modules over PID's (including canonical forms for matrices), chain conditions, tensor products; Jacobson radical, Artin-Wedderburn theorem, Maschke's theorem and other topics as time permits.

Grading: There will be approximately 5 homework assignments to be turned in (there will be other homework assigned as well). There will be one midterm. There will be a final (possibly take home). The homework will count for 50%, the midterm 20% and the final 30%.

First day of Class: Monday, January 8th. Last day of Class: Friday, April 26

Final: Friday, May 3rd, 11 AM – 1 PM