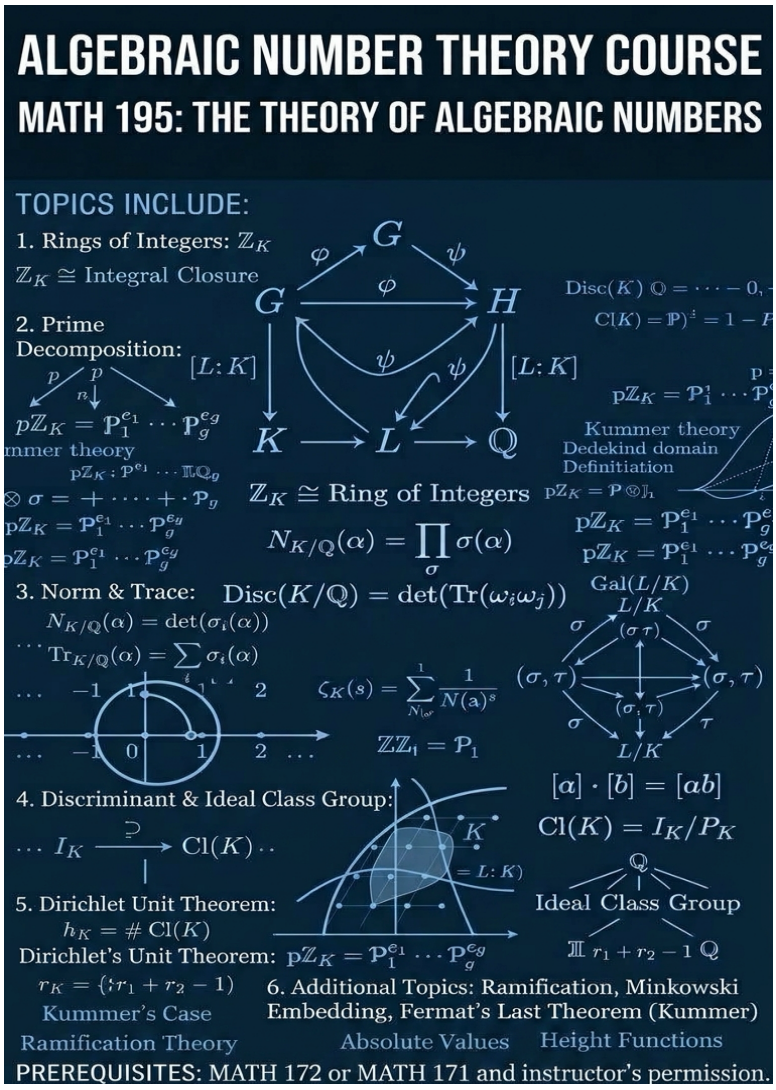
Claremont McKenna College – Spring 2027

Prof. Lenny Fukshansky

TTh 9:35-10:50 am, Roberts North 105



This course introduces the theory of algebraic numbers, one of the most central branches of modern mathematics. The topics covered will include number fields and their rings of integers, prime decomposition and uniqueness of factorization in rings of integers, Galois theory of number fields, trace, norm, discriminant, geometry of numbers, Minkowski embedding, ideal class group and class number, units and Dirichlet's unit theorem. Additional topics, as time allows, may include ramification theory, absolute values, height functions, Kummer's case of Fermat's Last Theorem.

Grading is based on homework sessions, midterm exam, and final exam or project.