

# MATH 280: Discrete Mathematics: An Introduction to Advanced Math

Through the lens of discrete mathematics, this course will serve as an introduction to formal proof writing techniques and advanced mathematics. Proof writing is the powerful process of demonstrating through formal argument that a statement or claim is correct in mathematical language. Topics covered in this class include combinatorics (methods of counting things), number theory (study of integers and prime numbers), and graph theory (theoretical study of networks), with an emphasis on creative problem solving and learning to read and write rigorous proofs. While no formal prerequisite is required, a previous math class at SUA or high school equivalent is strongly encouraged.

**Units:** 3

**Program:** [Mathematics](#)