

# MATH 381 Overview

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## Grading

- Homework Assignments - Wednesday; 25%
- Midterm1: Wednesday, March 6th; 25%
- Midterm 2: Wednesday, April 10th; 25%
- Final Exam: May 2nd; 25%; Thursday at noon
- Final consists of material from 1.1,3,4,5,7-8; 2.1-3; 5.1-2; 6.1-3; 9.1,5
- Midterm 1 is on Chapter 1 and 2 material; Midterm 2 is on Chapters 5, 6, 9

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## Discrete Math

Understand what a proof is.

Ch. 4 Basics of Number Theory: divisibility, prime numbers

Ch. 2 Functions: one-to-one, surjective

Cardinality of Sets

Ch. 5 **Mathematical Induction** Ex. Gauss' formula

Ch. 6 Combinatorics: Permutations and binomial coefficients

Ch. 9 Relations: Abstract Algebra

Ch. 8 Recursion Relations  $\iff$  Curve equations