

MATH 17

(GQ) **Finite Mathematics** (3) Introduction to logic, sets, probability.

Prerequisite: 2 units of high school mathematics

TOPICS

Statements

Truth Tables & Equivalent Statements

The Conditional

More Conditional

Analyzing Arguments & Proofs

Arguments with Quantifiers

Sets

Applications of Venn Diagrams

Intro to Probability

Basic Concepts of Probability

Conditional Prob; Independent Events

Bayes' Theorem

Multiplication Principle; Permutations

Combinations

Probability & Counting Principles

Binomial Probability

Probability Distributions

Expected Value