



"COLLEGE ALGEBRA AND TRIGONOMETRY"

Prerequisite: Mathematics 30 (Alberta Education) with a grade of 50% or higher or Basic Mathematics II (Faculty of Continuing Education) with a grade of C- or better.

Text: "Calculus Algebra and Trigonometry" by Aufmann, Barker and Nation, 5th edition, Houghton Mifflin

Syllabus

<u>Topics</u>	<u>Number of hours</u>
Fundamental Concepts (Real Numbers, Exponents and Radicals, Absolute Values, Algebraic Expressions, Equations and Inequalities, Coordinate Geometry, Lines and Circles) [Text Reference: Chapter 1]	12
Functions and Graphs (Definition of Functions, Operations on Functions, Inverse Functions) [Text Reference: Chapter 2]	5
Polynomial and Rational Functions (Zeros of Polynomials, Complex Zeros) [Text Reference: Chapter 3]	4
Exponential and Logarithmic Functions [Text Reference: Chapter 4]	5
Trigonometric Functions [Text Reference: Chapters 5 & 6]	5
Analytic Trigonometry (Trigonometric Identities and Formulae) [Text Reference: Chapter 7]	5
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