

HHS MATH DEPARTMENT

COURSE: Pre-Calculus I/II 1042/1043 (NCAA)

RIGOR: Accelerated (Above grade level) **Average** (On grade level) **Essentials** (Core concepts)

Pre-requisites: C or higher in Algebra 2

Course Description: The course is oriented toward those students planning a career in mathematics, science, engineering, or other related areas, which require a strong mathematical background. The class is a mixture of mathematical theory and techniques designed to allow entrance into college algebra or calculus.

Course Syllabus:

Semester 1

Appendix A (1-4)	Review of Fundamental Concepts of Algebra
Chapter 1 (1-10)	Functions and Their Graphs
Chapter 2 (1-7)	Polynomials and Rational Functions
Chapter 3 (1-5)	Exponential and Logarithmic Functions
Chapter 4 (1-8)	Trigonometry

Semester 2

Chapter 4 continued(1-8)	Trigonometry
Chapter 5 (1 & 2)	Analytic Trigonometry
Chapter 6 (1 & 2)	Additional Topics in Trigonometry (Vectors)
Chapter 9 (1-3)	Sequences and Series
Chapter 10 (1-4)	Topics in Analytic Geometry (Conics)
Chapter 12 (1,2,4,5)	Limits and Introduction to Calculus

MCA III, ACT, and College Placement Test Prep will be worked with in this course as well.

Minnesota Standards to be Mastered:

<http://education.state.mn.us/MDE/dse/stds/Math/>

Expected Homework: Daily assignments will be graded for completion and in some cases accuracy if they are being submitted online.

Late Work Policies: Homework will be accepted until end of the chapter. All tests and quizzes should be done within a week of being absent.

Grade Includes: Tests-50% Quizzes-35% Homework-15%