

HHS MATH DEPARTMENT

COURSE: Honors Pre-Calculus I/II 1044/1045 (NCAA)

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

Pre-requisites: B- or higher in Honors Algebra 2

Course Description: This course is designed for those students who excel in mathematics and intend to take AP Calculus at the high school or Calculus at a university next year.

Course Syllabus:

Semester 1

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 (1-4)	Trigonometry

Semester 2

Chapter 4 (4-8)	Trigonometry
Chapter 5 (1-5)	Analytic Trigonometry
Chapter 6 (1-2)	Additional Topics in Trigonometry
Chapter 9 (1-3,6,7)	Sequences, Series and Probability
Chapter 10 (1-4)	Topics in Analytic Geometry (Conics)
Chapter 12 (1,2,4)	Limits and Introduction to Calculus
Chapter 13 (1-2)	Concepts in Statistics

MCA III, ACT and College Place Test Prep will be done throughout the course.

Minnesota Standards to be Mastered:

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

Expected Homework: Daily assignments will be graded for effort and completion. Some assignments will be done online and submitted for accuracy.

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

Grade Includes: Tests-70% Quizzes-15% Homework-15%