${\bf Math~1601~Introduction~to~Higher~Mathematics}$

Math 1601 is not taught on a regular basis and is currently inactive.

Honors Calculus I

Department: MATH
Course Number: 1511
Hours - Lecture: 3
Hours - Lab: 0
Hours - Recitation: 2
Hours - Total Credit: 4

Typical Scheduling: no regular schedule (last offered in Fall 2006)

Description:

Differential calculus and basic integral calculus including the fundamental theorem of calculus, including the underlying theory of lin and sequences.

Prerequisites:

SAT Mathematics 700 or Converted ACT Math 700 or Undergraduate Semester level MATH 1501 Minimum Grade of D

Course Text:

At the level of Calculus, one and several variables, tenth edition, by Salas, Hille, and Etgen, John Wiley and Sons, Inc., 2007

Topic Outline:

Topic Text	t Sections	Lectures
Review of functions, graphs, inequalities and other basic notions 1.1-1	1.8	2
Limits and continuity 2.1-2	2.6	4
Differentiation: Computing derivatives 3.1-3	3.7	7
Limits of sequences and the exponential function 11.1-	-11.4	3
Minimum-maximum problems, applications of the derivative and curve sketching 4.1-4	1.10, 4.11	6
Integration and the fundamental theorem of calculus 5.1-5	5.9	6
Applications of integration 6.1-6	3.6	5
Transcendental functions 7.1-7	7.7	4
Techniques of integration 8.1-8	3.5	4
Complex numbers Web	o Notes	3

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