

Department of Mathematics Spring Quarter 2014

Math 172.001 Calculus I

Instructor: Fred McDonald Office: Black Hall 225-34

Office Hours: M – F 11 – 12 and by appointment

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Classroom: Hertz Hall Room 121 Class Meets: M – F 9:00 – 9:50 AM

Text: Calculus I & II by Hughes – Hallett, 6th Edition

You should have a graphing calculator (I'll be using a TI – 83)

Grading scale: Grades are based on total point percentages, calculated to the nearest whole number:

93 -100 A	77 – 79 C+	57 – 62 D-
90 – 92 A-	73 – 76 C	Below 57 - F
87 - 89 B+	70 – 72 C-	
83 – 86 B	67 – 69 D+	
80 – 82 B-	63 – 66 D	

Total Points will be based on:

Four chapter tests:	400
Final exam:	400
Homework:	400

A handwritten 3 X 5 notecard may be used on all tests. Make-up tests are generally not given. A student who will not be able to attend class on an exam day must notify the instructor PRIOR to the class session or the right to make up the exam will be forfeited. Additional quizzes and assignment will be given as needed. Dates for quizzes and exams will be announced in class.

This class introduces differential calculus. Limits, continuity and differentiation are among the important concepts introduced. We will learn the definition of a derivative and rules for computing derivatives of elementary and composite functions. Geometrical and physical interpretations of the derivative are included. Finally, we will use the interpretations to solve problems of a practical nature including graphing functions, determining maximum and minimum values, and related rates.