



IOWA STATE UNIVERSITY

MATH 160: Survey of Calculus

Textbook: Applied Calculus for the Managerial, Life, and Social Sciences, A Brief Approach, 8th Edition, Tan

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Office hours: MTRF 1:10-2:00

Course Description: The course provides a basic introduction and survey of calculus and some of its applications. During the first week, time will spent on refreshing algebra skills. In Chapters 2-5, we will study the concept of the derivative and its applications. Finally in Chapters 6-7, we will study integral calculus and look at some of its applications. Time permitting, we might skim over some topics of multi-variate calculus, such as partial derivatives.

Prerequisites: Satisfactory performance on placement exam, 2 years of high school algebra, 1 year of high school geometry.

Course Objectives:

The students taking the course should learn Differential Calculus and its applications to Business, Life and Social Sciences. The main topics that will be emphasized in the course are

1. Differentiation and Integration of functions and their applications.
2. Exponential and Logarithmic Functions and their applications.

SYLLABUS FOR FALL 2009: MTRF 12:10-1:00 (B) and 2:10-3:00 (D)

Week	Date	Monday	Tuesday	Thursday	Friday
1	8/24	1.1	1.2	1.3	1.4
2	8/31	2.1	2.2	2.3	2.3
3	9/7	BREAK	2.4	2.4	2.5
4	9/14	2.6	2.6	3.1	3.2
5	9/21	3.2	3.3	3.3	3.5
6	9/28	3.6	3.6	REVIEW	EXAM 1
7	10/5	4.1	4.1	4.2	4.3
8	10/12	4.3	4.4	4.4	4.5
9	10/19	5.1	5.1	5.2	5.2
10	10/26	5.4	5.4	5.5	5.5
11	11/2	6.1	6.2	REVIEW	EXAM 2
12	11/9	6.2	6.3	6.3	6.4
13	11/16	6.5	6.5	6.6	6.6
14	11/23	BREAK	BREAK	BREAK	BREAK
15	11/30	7.1	7.1	7.4	7.4
16	12/7	8.1	8.1	8.2	8.2

Final Exam: Week of December 14-18. Please Check!