Calculus

2011 Spring

Course Information

Instructor: Dr. Jeng-Huei Chen (陳政輝)
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Class Hours: Tue. 2:10pm - 5:00 pm
Office Hours: Mon. 3:10pm – 5:00 pm
Recitation: TBD
TA: TBD

Course Objectives

This course serves as an introduction to calculus. Its goal is to provide students a basic training of mathematical skills so that they may have sufficient background to learn advanced college mathematics. Students will learn the concepts of limit, continuity, derivative, integral and some realistic problems with focus on business applications.

Grading Policy

Class participation: (based on students' participation and performance in class.)	5 %
Homework Assignments	25 %
Mid-term Exam	30 %
Final Exam:	40%
Total	100%

There will be 8 to 10 homework assignments in this course. The deadline of each assignment will be declared when it is handed out. No late homework will be accepted without legitimate reasons. However, students are allowed to skip up to 2 homework assignments.

Schedule

The class is tentatively scheduled as follows. It is subjected to change based on the actual progress of the class.

Week	Date	Topics
1	2/22	Introduction to calculus
2	3/1	Function and Limit (I)
3	3/8	Function and Limit (II)
4	3/15	Function and Limit (III)
5	3/22	Differentiation (I)
6	3/29	Differentiation (II)
7	4/5	Holiday
8	4/12	Differentiation (III)
9	4/19	Mid-term Exam
10	4/26	Applications of Differentiation (I)
11	5/3	Applications of Differentiation (II)
12	5/10	Exponential and Logarithmics

13	5/17	Integration (I)
14	5/24	Integration (II)
15	5/31	Techniques in Integration
16	6/7	Applications in Integration (I)
17	6/14	Appliations in Integration (II)
18	6/21	Final Exam

Text Book

1. Applied Calculus for Business, Economics, and the Social and Life Sciences, Expanded Edition, Tenth Edition by Laurence D. Hoffmann and Gerald L. Bradley.