BOSTON COLLEGE
DEPARTMENT OF ECONOMICS

EC311.01   Chong-en Bai
Fall 1997   148 Carney, x3690
T, Th 1:30-3:00 PM   Office Hours: Wed. 3:00-5:00
Gasson 204   or by appointment

MATHEMATICS FOR ECONOMISTS

This is an introductory course in mathematical economics. The goal is to learn the application of mathematical concepts to economics. Gaining logical reasoning ability is another objective of the course.

Textbook:
Sydsaeter, Knut, and Hammond, Peter J., Mathematics for Economic Analysis, Prentice Hall, 1995.

The textbook is required reading.

Course Requirements:

Midterm Exam (Thur., October 23, in class)	35%
Final Exam (Fri., December 12, 4:00pm)	45%
Problem Sets	20%

There will be an in-class midterm exam, a comprehensive final exam (dates above), and regular problem sets.

There will be no make-up exams except for special reasons, so pay close attention to the dates. Those who miss an exam without my prior approval will get no credit. Late problem set will get at most 70% of full credit.

Academic Integrity: I expect all students to do only their own work on exams. Discussion on problem sets is encouraged, but each student should write up and hand in his/her own answer to the problem sets.

Contents of the Course

1. Introduction
      Ch 1.

2. Functions
      Ch 2.

3. Special Functions: I
      Ch 3.

4. Limits and Continuity
      6.1, 6.2, 6.4 - 6.7, 7.1.

5. Differentiation
      Ch 4 and 5, 7.2-7.6.

6. Special Functions: II
      Ch 8.

7. Single Variable Optimization
      Ch 9.

8. Linear Algebra
      Ch 12 and 13.

9. Partial Differentiation
      Ch 15 and 16.

10. Optimization in Two Variables
      17.1 -17.8.

11. Constrained Optimization
      Ch 18.