

MATH 112
Call/Sec. 08452/004

Calculus for Business & Economics

Fall 2009
3 Credit hours

Lecture: 3:05–4:20pm Monday & Wednesday, Room: Engr. 109.

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Office hours : 10:45–11:45am MW, or by appointment

Prerequisite: Math 104 or score 17 or more on algebra diagnostic exam.

Text: Calculus and Its Applications, 9/E, Bittinger/Ellenbogen,
ISBN(13) 0321395344 (978-0321395344) Addison Wesley (2007)

Description: Calculus for the business and economics students.

Important Dates:

Aug. 24 First day
Sept. 7–8 Labor Day: No classes
Sept. 10 Last day to register/Final day for 100% Drop Refund
Nov. 25–29 Thanksgiving: No classes
Dec. 2 4–4:20pm: Instructor Evaluation (FCQ)
Dec. 9 Lecture ends

Exams: There will be two 75-minute-exams and a comprehensive final exam.

Exam 1 3:05–4:20pm, Oct. 5 (Mon.)
Exam 2 3:05–4:20pm, Nov. 4 (Wed.)
Final Exam 1:40–4:10pm, Dec. 16 (Wed.)

There will be NO makeup exam unless arrangements have been made prior to Sept. 11. A missed exam will be counted as a score of **zero** point toward your course grade.

Grade : 100%

10%: Homework
90%: Exams : 30%/each exam
A: 93–100 A–: 90–92.9 B+: 87–89.9 B: 83–86.9 B–: 80–82.9 C+: 77–79.9
C: 73–76.9 C–: 70–72.9 D+: 67–69.9 D: 63–66.9 D–: 60–62.9 F: below 60%

If the mean/median/average is abnormally low, I may curve the grade.

Drop: Please seek counseling from the Dean's office before dropping *any* course.

Important dates:

Sept. 10 – last day to drop and receive a 100% tuition refund.

Oct. 30 – last day to drop without special permission from your Dean.

Disability Statement: If you have a disability for which you are requesting an accommodation, you are encouraged to contact Disability Services within the first week of classes. Contact information: Main Hall, room 105, 255-3354.

- 8/24 Overview
- 8/26 Review 1
- 8/31 Review 2
- 9/2 Quiz on Prerequisites
- 9/9 1.1 Limits- Numerically and Graphically, #8,9,10,11,12
- 9/14 1.2 Limits Algebraically, #14,15,16,17,18
- 9/16 1.3 Average rates of change # 1a,b,2a,b,3; 1.4. derivative using limit definition
- 9/21 1.5 Power, Sum, Difference, #1,2,3,4,5
- 9/23 1.6 Product, Quotient Rules, #1,2,3,4,5
- 9/28 1.7 Chain Rule, #1,2,3,4,5
- 9/30 1.8 Higher-Order Derivatives, #1,2,3,4,5
- *10/5 Test 1- Chapters 1
- 10/7 2.1 Maximization and Minimization with 1st derivative, #1,2,3,4,5
- 10/12 2.2 Maximization and Minimization with 2nd derivative, #1,2,3,4,5
- 10/14 2.4 Absolute Maximum and Minimum, #2,4,5,8,16; 2.5 Applications
- 10/19 2.6 Differentials, #1a,b,c,d,2a
- 10/21 2.7 Implicit Differentiation and Related Rates, #1,2,3,4,5
- 10/26 3.1 Exponentials, #11,12,13,14; 3.2 Logarithms
- 10/28 3.3 Growth #1,2,3,4,5; 3.4 Decay
- 11/2 3.5 Derivatives of Exponentials and Logarithms, #1,2,3,4,5
- *11/4 Test 2- Chapters 2 and 3
- 11/9 4.1 Areas, #1,2,3,4,5
- 11/11 4.2 Antiderivatives, #1,2,3,4,5
- 11/16 4.3 Definite Integrals, #1,2,3,4,5; 4.4 Properties
- 11/18 4.5 Substitution, #1,2,3,4,5; 4.7 Tables
- 11/23 6.1 Functions of Several Variables; 6.2 Partial derivatives, #1,2,3,4,5
- 11/30 6.3 Multivariate Optimization, #1,2,3,4,5
- 12/2 6.3 Maximum/Minimum, #22,23,24,25,31
- 12/7 Review I
- 12/9 Review II
- *12/16 Comprehensive Final Exam