

Application of Calculus to Business and Economics

Math 112 A – Summer 2006

Instructor: Nathaniel Blair-Stahn
E-mail: ndbs@math.washington.edu

Office: Padelford C-8B
Office Hours: TBA

Teaching Assistant: Tophe Anderson
E-mail: andersoc@math.washington.edu

Office: Padelford C-8D
Office Hours: TBA

Course Website: <http://www.math.washington.edu/~ndbs/m112/summer06>

Text: *Calculus in Business and Economics* by G.S. Monk, available at Professional Copy & Print, 4200 University Way NE.

Other Required Materials:

- a clear plastic ruler
- a scientific calculator
- packet of lecture handouts (download from course website)

Course Objectives: Students will learn the concepts of differential and integral calculus in specific contexts with emphasis on applicaitons to economics. Topics will include: rates of change, tangent lines, derivatives, linear programming, accumulation, area, and integrals.

Grading: Your grade will be made up of:

Activities	10%
Homework	10%
Participation	2%
Exam I	21%
Exam II	21%
Final Exam	36%

Activities: You will participate in group activities during quiz section each Tuesday. These activities are designed to reinforce or deepen your conceptual understanding of topics in the course or to introduce new topics. You will work on these activities in groups; however, each individual will hand in his/her own solutions. These activities are designed to be finished and turned in at the end of the quiz section; but, if a group demonstrates a reasonable effort and is unable to finish, the members of that group may turn in the activity at the next quiz section (but no later).

Homework: Homework will be assigned weekly in lecture and will be collected during Friday's lecture. Since the answers to most of the exercises are available to you, it is important that you write out complete solutions to all assigned problems. No credit will be given for simply writing the correct answer. During Thursday's quiz section, your TA will answer questions about the homework due the next day.

Participation: During Thursday's quiz sections, you will attempt problems from previous exams in a test-like situation and then discuss these problems as a class. You will receive points for participating in these discussions. After the discussion, your TA will answer questions about the week's homework assignment.

Exams: You will be allowed to use your calculator, your ruler, and one two-sided 8.5" × 11" sheet of **handwritten** notes for the exams. Other electronic devices will not be allowed (e.g. no cell phones, no laptops, no Palm Pilots). You may not share a calculator or a note sheet with another student on an exam.

Important Dates: (subject to revision)

Your exams are tentatively scheduled for the following dates. These might change slightly, depending on how fast we get through the material.

Exam I	Friday, July 14	in lecture
Exam II	Thursday, August 3	in quiz section
Final Exam	Thursday & Friday, August 17-18	in class

Make-Ups: Late activities and homework assignments will not be accepted for any reason. You will be allowed to miss one activity AND one homework assignment without penalty to your grade.

In the case of observance of religious holidays or participation in university sponsored activities, such as debate or athletics, arrangements must be made at least 2 days in advance for activities and 1 week in advance for exams. You will be required to provide documentation for your absence.

Make-up exams will not be given. If you miss an exam due to **unavoidable, compelling, and well-documented** circumstances, your final exam will be weighted more heavily.

Resources:

- The website for this course is at:
<http://www.math.washington.edu/~ndbs/m112/summer06/>
You will find homework assignments, a schedule for the term, TA information, and other useful stuff there. Bookmark this page and check it often.
- The University of Washington is committed to providing access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, 206-685-7264 (FAX), or dso@u.washington.edu.

Things to do before the next lecture:

- purchase your “text” from Professional Copy’N’Print on the Ave
- download the packet of lecture handouts and bring these to every lecture
- get a clear plastic ruler and a scientific calculator and bring these to every class
- go to the course website and find:
 - the calendar for the quarter
 - the homework schedule for the quarter
 - homework guidelines (read these – read them carefully)
 - the Math 112 materials website (including the Exam Archive, the Answers to the Text Exercises, and Graphs and Tables from the homework to print out and turn in)
 - information about the Math Study Center and CLUE