

## Math 1100 – Business Calculus - Section 1 Spring 2007

Information contained in this syllabus, other than the grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor. Changes will be announced in class.

**Instructor:** Sarah Brown  
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**Email:** [brown\\_s@suu.edu](mailto:brown_s@suu.edu) Occasionally I don't receive emails, especially from yahoo accounts. If problems occur, please use [brownsarah@suumail.net](mailto:brownsarah@suumail.net)  
**Website:** [http://www.suu.edu/faculty/brown\\_s/](http://www.suu.edu/faculty/brown_s/)  
**Prerequisites:** A grade of C or better in [Math 1050](#).  
**Text:** *Brief Calculus & Its Applications, 10th ed.* by Goldstein, Lay, and Schneider  
**Other Materials:** Calculator  
**Class Meetings:** **Section 1:** 2-2:50pm MWF in SC129  
**Office Hours:** Monday through Friday, 11-12 in SC 120

### Course Description:

An introduction to Calculus with application to business. Topics include limits, derivatives and special functions such as exponential and logarithmic function, functions of several variables, partial derivatives, constrained optimization and Lagrange multipliers. Brief introduction to the methods of least squares.

### Objectives:

Compute, use, and interpret derivatives with regard to business, economics, and other applications  
Solve optimization problems  
Learn about exponential and logarithmic functions and their applications in finance, economics, etc.  
Use the method of least squares and nonlinear regression to model data

### Grading:

Homework (33 assignments)	450 points (15 pts each, 3 lowest assignments will be dropped)
Chapter Tests (3 tests)	300 points (100 pts each)
Final Exam	250 points (cumulative, although about a third of the exam will focus on Chapter 7)
Extra Credit	½ point for each day you attend class (except exam days and reviews), provided you're on time and stay the whole class period. There are also extra credit test review assignments.

### Grading Scale:

A	930-1000 (93%-100%)	B-	800-829 (80%-82%)	D+	670-699 (67%-69%)
A-	900-929 (90%-92%)	C+	770-799 (77%-79%)	D	630-669 (63%-66%)
B+	870-899 (87%-89%)	C	730-769 (73%-76%)	D-	550-629 (55%-62%)
B	830-869 (83%-86%)	C-	700-729 (70%-72%)	F	0-549 (0%-54%)

### Homework:

The class is 3 credits. Expect to spend at least 6 hrs on homework each week (2 hours for every hour of class). Homework is graded by selecting a few of the assigned problems. Work must be shown to get credit. You are encouraged to work in groups but may not copy each other's homework. Copying solutions from others or the back of the book or solutions manual will result in 0 credit. Homework is collected at the end of class. Late homework is not accepted and missed exams cannot be made up unless there are extenuating circumstances as approved by the instructor. Grades will be posted periodically on WebCT, which can be accessed from <http://www.suu.edu/curstu/>.

**Calculators:**

The calculator is a very valuable tool and is required on many homework problems. However, its use can also inhibit understanding if it is figuring things out for you that you should be doing on your own. You may have a problem marked wrong if you use a calculator to do a problem you should do on your own.

**University Policies:**

*Scholastic dishonesty* will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

*Having an instructors manual is not allowed.*

Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the *Disability Support Center*, Room 205D, Sharwan Smith Center, phone (435) 865-8022. The Disability Support Center determines eligibility for and authorizes the provision of these services and aids.

**Resources for Help:**

- The Student Success Center <http://www.suu.edu/ss/success/> in the Sharwan Smith Center has free tutoring <http://www.suu.edu/ss/success/tutoring.html>.
- My office hours are Monday through Friday 11-12 in SC 120.
- I encourage you to form study groups with your classmates. However, the problems must be written up in your own words. Duplicate homeworks are not acceptable and will result in 0 credit for all parties.
- The textbook explanations can be helpful.