Dixie State College of Utah—Spring 2009 Course Syllabus

COURSE: Math 1100-05S, Business Calculus, MWF 12:00 ~ 12:50 AM
Room Number: Technology Bldg. 3 Credit Hours CRN: 22829

INSTRUCTOR: Dr. Clare Banks, banks@dixie.edu *Office*: NIB 138 *Phone*: 652-7982
Office Hours: TR 9~9:50, MWF 10~11:50 and by appointment.

TEXT : Bittinger, M., & Ellenbogen, D.(2008), *Calculus and Its Applications.*
MA: Pearson/Addison Wesley

PREREQUISITES: C or better in Math 1050 or 1090, ACT/CPT Math score of 26 or higher.

CALCULATOR: A graphing calculator is required. You are not allowed to share calculators during tests or quizzes. The model TI-83 Plus will be used in class. I highly recommend a TI-83 Plus, a TI-84, or a TI-89 calculator.

COURSE WORK: The student's final grade will be determined by her/his performance on homework, exams, quizzes and final exam

- Final exam will be cumulative
- *Homework*: Homework will be assigned and collected every Friday. The homework may be graded or just checked off. If it receives a check mark, that will indicate full credit. Do not hand in incomplete homework. Most of the time, a list of answers is not sufficient, you must show work. Check your answers in the back of the text when possible. Clearly label your homework with chapter and section numbers. **Start each section with a clean page**.
- *Exams*: There will be 5 exams. Each exam will be worth 100 points. No makeup exams will be given except in the case of a documented illness.
- *Grading*: Final – 20%, Exams – 60%, HW – 10%, Quiz 10%

GRADES: Grades will be assigned as follows: A(94~100%), A-(90~93%), B+(87~89%), B(83~86%), B-(80~82%), C+(75~79%), C(70~74%), C-(65~69%), D+(60~64%), D(55~59%), D-(50~54%), F(0~49%)

DISABILITIES: If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your Professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the Center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability. You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973.

DMAIL: Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, and notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail email account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

IMPORTANT DATES: Please see http://new.dixie.edu/reg/?page=spring2009 for important dates.

ACADEMIC DISCIPLINE If cheating or disruptive behavior occurs the instructor will follow academic discipline procedures 34.1 & 34.2 , as explained at http://www.dixie.edu/humanres/policy/sec3/334.html

OBJECTIVES:

All classes in mathematics at Dixie College support the general education goal of the college. Each class will:
- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of this course, the students will demonstrate through testing the ability to:
- Discuss and analyze the concept of limits and the interrelationships of the graphic, numeric, and symbolic approaches to limits.
- Discuss and analyze the interpretations of functions and their first and second derivatives.
- Apply basic calculus techniques to data and functions that serve to mode real-life applications of business, economics, social science, and architecture careers.
- Apply the definite integral as the limit of a sum to applications in the areas of business, economics, sociology, and ecology.

Spring 2009 Schedule
Tentative (Subject to Change)

MON	WED	FRI
5 *Jan* 1.1	7 1.2	9 1.3 Q1
12 1.4	14 1.5	16 1.6, Q2
19 *No School*	21 1.7	23 1.8, Q3
26 Review	28 **Exam I**	30 2.1
2 *Feb* 2.2	4 2.3	6 2.4, Q4
9 2.5	11 2.7	13 Review, Q5
16 *No School*	18 **Exam II**	20 3.1
23 3.2	25 3.3	27 3.4, Q6
2 *Mar* 3-5	4 Review	6 **Exam III**
9 4.1	11 4.2	13 4.3, Q7
16 *Spring Break*	18 *Spring Break*	20 *Spring Break*
23 4.4	25 4.5	27 Review, Q8
30 **Exam IV**	1*Apr* 5.1	3 5.2, Q9
6 5.3	8 5.6,6.1	10 6.2, Q10
13 6.3	15 6.6	17 Review, Q11
20 **Exam V**	22 Final Review	24 Review, Q12
27	29	1 *May*

1.1	13~73eoo
1.2	9~61eoo
1.3	1~29eoo, 35, 43
1.4	1~25eoo, 19, 23
1.5	1~77eoo, 35, 47, 55, 79
1.6	1~45eoo, 97, 99, 101, 103, 105, 110
1.7	1~57eoo, 51, 59
1.8	1~45eoo, 47, 49, 55
2.1	1~21eoo, 35, 43, 69, 71, 75, 79
2.2	1~21eoo, 53, 101, 107
2.3	1~61eoo
2.4	1~33eoo, 61, 63, 97
2.5	1~41eoo, 19, 31, 39, 46, 53
2.7	1~29eoo, 33, 37, 39, 45
3.1	13~53eoo, 75, 81
3.2	1~73eoo, 27, 79, 83
3.3	1~21eoo
3.4	1~21eoo
3.5	1~41eoo
4.1	1, 3, 5, 9
4.2	1~57odd
4.3	1~37eoo, 43~63odd
4.4	1~21odd, 27, 31, 35, 37, 45, 47, 51
4.5	1~33eoo, 41~49, 57, 65
5.1	1~13eoo
5.2	1~33eoo
5.3	1~33eoo
5.6	1~17eoo
6.1	1~13eoo
6.2	1~14eoo
6.3	1~17eoo, 19
6.6	1~13odd