

Math 1100 Business Calculus

Spring 2012 CRN: 20400

Section 50

Mon, Wed 5:15-6:30 PM

Text: *Calculus and its Applications*, 10th Edition, by Bittinger, Ellenbogen, and Surgent

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Office Hours: MW 6:30-7:30PM

and by appointment

1. OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college and 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:

1. Discuss and analyze the concept of limits and the interrelationships of the graphic, numeric, and symbolic approaches to limits.
2. Discuss and analyze the interpretations of functions and their first and second derivatives.
3. Apply basic calculus techniques to data and functions that serve to mode real-life applications of business, economics, social science, and architecture careers.
4. Apply the definite integral as the limit of a sum to applications in the areas of business, economics, sociology, and ecology.

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located in the North Plaza. Visit or call 652-7516 to schedule appointment to discuss the process. The DRC Coordinator determines eligibility for and authorizes the provision of services.

2. INSTRUCTOR'S EXPECTATIONS:

- A. A graphing calculator (or equivalent technology) is required.
- B. Each student is expected to attend class.
- C. Assignments should be completed each day, but will only be collected on the day of the test.
- D. Each student is expected to take the examinations as scheduled.
- E. Ask for help when needed.

3. GRADING: Grades will be based on the number of points earned out of the total points possible.

A 100 – 94%	B 86 – 83%	C 74 – 70%	D 59 – 55%
A- 93 – 90%	B- 82 – 80%	C- 69 – 65%	D- 54 – 50%
B+ 89 – 87%	C+ 79 – 75%	D+ 64 – 60%	F 49 – 0%

4. SCHEDULE

Mon	1/9	Review Pg. 85 1-19, 24-31, 33-37, 40, 43-45, 47-48
Wed	1/11	Review Pg. 85 49-57 all
Mon	1/16	No Class (Martin Luther King Jr. Day)
Wed	1/18	1.1 ODDS-61, 65, 73, 75, 85, 87 1.2 EOO-53, 55
Mon	1/23	1.3 EOO-29, 35, 43 1.4 EOO-25, 19, 23
Wed	1/25	Review Test 1/25 – 2/1 Testing Center
Mon	1/30	1.5 EOO-77, 55, 85, 89 1.6 EOO-45, 97, 99, 101, 103, 105, 110
Wed	2/1	1.7 EOO-33, 45, 49, 51, 53, 57, 59, skip 25 1.8 5, 9, 13, 17, 33, 37, 39, 45, 47, 49, 55
Mon	2/6	2.1 1, 9, 21, 69, 71, 75, 79 2.2 9, 13, 17, 21, 25, 47, 53, 103, 109
Wed	2/8	2.2 Cont. 2.4 1, 5, 21, 29, 57, 97, 103
Mon	2/13	Review Test 2/13 – 2/22 Testing Center
Wed	2/15	2.5 EOO-41, 31, 39, 50
Mon	2/20	No Class (Washington's Birthday)
Wed	2/22	2.5 CONT.
Mon	2/27	2.6 EOO-33, 20, 49, skip 25
Wed	2/29	2.7 EOO-25, 27, 33, 37, 38
Mon	3/5	2.7 CONT.
Wed	3/7	Review Test 2/27 – 3/5 Testing Center
Mon	3/12	No Class (Spring Break)
Wed	3/14	No Class (Spring Break)
Mon	3/19	3.1 EOO 13-45, 75, 76, 81, 83, 85
Wed	3/21	3.2 EOO-69, 75, 79, 81, 85
Mon	3/26	3.3 EOO-29, 18, 19, 41 3.4 EOO-21, 24
Wed	3/28	3.5 EOO-21, 37, 41 4.1 EOO-41, 47, 51, 55, 59, 60
Mon	4/2	4.3 EOO-37, 49, 59, 61, 63, 73, 77
Wed	4/4	4.4 1, 3, 5, 11, 15, 17, 18, 19, 20, 23, 25, 31, 35, 39, 41, 49, 51 Test 4/4 – 4/16 Take Home
Mon	4/9	5.1 1, 5, 9, 13, 21
Wed	4/11	5.2 ODDS-41, 23, 27, 31, 35
Mon	4/16	5.3 29, 31, 33, 35 5.7 9, 15, 21, 27, 33
Wed	4/18	6.1 1, 5, 13, 15 6.2 EOO-17, 29, 31, 41, 42
Mon	4/23	6.3 TBA Review for Final
Wed	4/25	Review for Final
Mon	4/30	Final Exam 5:00 – 7:00 PM In-Class (chps. 5-6 & comprehensive)