

Syllabus: Math 1100-03 – S'09**Business Calculus (20399)**

TR, 1:00pm, NIB 144

Text: Calculus and Its Applications,
9th ed., Bittinger, EllenbogenPrerequisite: Math 1050, 1090 (C or better)
or ACT-Math/CPT score of 26+

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Office hours:

M: 1:00-3:00pm

W: 9:00am-12:00pm, 1:00-2:00pm
and by appointment**DIXIE STATE COLLEGE COURSE OBJECTIVES:**

All mathematics courses at Dixie State College will:

1. Require students to perform mathematical processes, including fractions, percentages, decimals, proportions/ratios, algebraic equations, and/or calculus techniques.
2. Provide students with application problems that use a variety of methods, including arithmetic, algebraic, and geometric.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and/or tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of Math 1100, a student 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 model 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.

INSTRUCTOR EXPECTATIONS:

1. Attendance is of prime importance in any college class but especially in a mathematics class. Therefore, students should make every effort to show up.
2. Homework will be collected, graded, and returned on each test day. Late homework will receive half-credit; too-late homework will receive no credit.
3. A graphing calculator is required; a TI-89 is highly recommended.
4. Cheating will not be tolerated and may result in an F.
5. Without prior permission or a documented excuse, make-up test grades will be reduced by 10%.
6. Occasional pop quizzes may be given; points will be added to the homework points.

GRADING:

5 tests @ 100 points each

5 HWs @ 20 points each

Final exam @ 200 points

for a total possible 800 points

Grades by percentages:

A: 93-100; A-: 90-92;

B+: 87-89; B: 83-86; B-: 80-82;

C+: 77-79; C: 70-76; C-: 65-69

D: 60-64; F: <60

NOTE: If you are a student with a documented physical or mental impairment that will substantially limit a major life activity, please contact the Disability Resource Center on the main campus. The Center Coordinator and staff will assist you in analyzing your eligibility for services. If you are deemed eligible, reasonable accommodations that are appropriate to your disability will be assigned. If you have any questions concerning this process, please contact the Center at 652-7516. We are located in the Student Services Center, room 201, of the Edith Whitehead Building.

NOTE: All information sent from the college or the instructor will be sent to your dmail account. You MUST check that email account at least once a week. You are responsible for knowing what is contained within those messages.

TENTATIVE HOMEWORK SCHEDULE – S'09

Note: eoo means Every-Other Odd-numbered homework problem, i.e., 1, 5, 9, 13, 17, . . .

Date Assigned	Section	Assignment
T 1/6	R1 // R2	eoo 25-45 // eoo 25-33, 49-77
R 1/8	R3 // R4	eoo 33-61 // eoo 61-85
T 1/13	R5 // R6	eoo 17-45, 81-101 // odds 11-13
R 1/15	Review	Chap. R Test, pp. 95-97, odds 1-27
T 1/20	TEST 1	
R 1/22	1.1 // 1.2	eoo 13-73 // eoo 9-61
T 1/27	1.3 // 1.4	eoo 1-13 (part a only), 17-41, 49-53 // eoo 17-41
R 1/29	1.5 // 1.6	eoo 25-89 // eoo 21-45, 101-113
T 2/3	1.7 // 1.8	eoo 1-41, 57-69, 77-81 // eoo 1-53
R 2/5	Review	Chap. 1 Test, pp. 192-193, odds 1-39
T 2/10	TEST 2	
R 2/12	2.1 // 2.2	eoo 1-29, 69-77 // eoo 9-13, 21-29, 37-49, 105
T 2/17	2.3 // 2.4	eoo 25-41, 57-61 // eoo 49-105
R 2/19	2.5 // 2.7	eoo 1-21, 29-45 // eoo 1-45
T 2/24	3.1 // 3.2	eoo 13-53, 77-89 // eoo 17-85
R 2/26	Review	Chap. 2 Test, pp. 299-300, odds 1-43 Chap. 3 Test, pp. 385-386, odds 1-13
F 2/27	last day to drop/audit	
T 3/3	TEST 3	
R 3/5	3.3 // 3.4	eoo 9-21, 29-37, 45 // eoo 1-21, 29, 37
T 3/10	3.6 // 4.1	eoo 1-13 // eoo 13-29
R 3/12	4.2 // 4.3	eoo 1-69 // eoo 9-13, 25-29, 37, 45-69, 77-81, 89
T 3/24	4.4 // 4.5	eoo 1-5, 13-45, 53-57 // eoo 1-33, 41-49, 57, 65
R 3/26	Review	Chap. 3 Test, pp. 385-386, odds 15-21 Chap. 4 Test, pp. 464-465, odds 3-13, 19-25
F 3/27	last day for complete withdrawal	
T 3/31	TEST 4	
R 4/2	5.1 // 5.2	eoo 1-13 // eoo 1-29
T 4/7	5.3 // 5.6 // 6.1	eoo 1-13, 21-41 // eoo 1-17 // eoo 1-13
R 4/9	6.2 // 6.6	eoo 1-53 // eoo 1-13
T 4/14	Review	Chap. 5 Test, pp. 534-535, odds 1-11, 25 Chap. 6 Test, p. 591, odds 1-7
R 4/16	TEST 5	
T 4/21	Review for final	
R 4/23	Review for final	
R 4/30	FINAL EXAM, 12:30-2:30pm	