

**Syllabus: Math 1100-02 – S'12****Business Calculus (20399)**

TR, 1:00pm, NIB 144

Text: Calculus and Its Applications,  
10th ed., Bittinger, EllenbogenPrerequisite: Math 1050 (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.
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

a total possible 800 points

Grades by percentages:

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

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

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

D: 60-64; F: &lt;60

**NOTE:** 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 for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule an appointment to discuss the process. The DRC Coordinator determines eligibility for and authorizes the provision of services.

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

**REVISED TENTATIVE HOMEWORK SCHEDULE – S'12**

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

<b>Date Assigned</b>	<b>Section</b>	<b>Assignment</b>
T 1/10	R.1 // R.2 // R.3	Diagnostic Test A&B, p. xix, all 1-32, 1-18
R 1/12	R.4 // R.5 // R.6	Chap. R Test, pp. 88-89, all 1-21, 23-27
T 1/17	1.1 // 1.2	eoo 65-93 // eoo 9-73
R 1/19	1.3 // 1.4	eoo 25-45, 53 // eoo 1-13 (part c only), 17-37, 45-49
T 1/24	1.5 // 1.6	eoo 33-93 // eoo 21-33, 41-45, 97-109
R 1/26	1.7 // 1.8	eoo 1-29, 53-61, 69-85 // eoo 1-57
T 1/31	Review	Chap. 1 Test, pp. 192-193, odds 5-39
R 2/2	<b>Test 1 (Chapter 1)</b>	
T 2/7	2.1 // 2.2	eoo 1-33, 81, 89 // eoo 9-33, 49-53
R 2/9	2.3 // 2.4	eoo 1-53, 65 // eoo 49-85, 97-105
T 2/14	2.5 // 2.6	eoo 1-37 // eoo 1-21
R 2/16	2.7	eoo 1-37; <b>odds</b> 39-41, 45-47
T 2/21	Review	Chap. 2 Test, pp. 303-304, odds 1-29
R 2/23	<b>Test 2</b>	
T 2/28	3.1 // 3.2	eoo 21-49, 77-85 // eoo 53-89
R 3/1	3.3 // 3.4	eoo 9-21, 29-45 // eoo 1-37
T 3/6	3.5 // 3.6	eoo 5-17, 37-45 // eoo 1-13
R 3/8	Review	Chap 3 Test, pp. 384-385, odds 1-21
T 3/20	<b>Test 3</b>	
R 3/22	4.1 // 4.2	eoo 1-69 // <b>odds</b> 13-23
T 3/27	4.3 // 4.4	eoo 25-37, 45-61, 69-77, 85-89 // 5; eoo 21-61
R 3/29	4.5	eoo 1-57
T 4/3	Review	Chap. 4 Test, pp. 468-469, odds 3-15, 21-27
R 4/5	<b>Test 4</b>	
T 4/10	5.1 // 5.2	eoo 1-13 // eoo 1-13, 21-25, 41-45
R 4/12	5.3 // 5.6	eoo 1-41 // eoo 1-17
T 4/17	6.1 // 6.2 // 6.6	eoo 1-21 // eoo 1-37 // <b>odds</b> 1-15
R 4/19	Review	Chap. 5 Test, p. 543, odds 1-7, 11-13, 27 Chap. 6 Test, p. 599, odds 1-7, 13
T 4/24	<b>Test 5</b>	
R 4/26	Review for final	
R 5/3	<b>Final Exam, 12:30-2:30pm</b>	