

DIXIE STATE COLLEGE - - Spring 2015
MATHEMATICS DEPARTMENT

Course Number: MATH 1210**Section Number:** 2**Room Number:** SNOW 125**Instructor:** Ross Decker**Contact Info:** 652-7763, decker@dixie.edu**Text:** Calculus—Concepts and Contexts (4th Edition)**Prerequisites:** C or better in **MATH 1050** and **MATH 1060** or ACT Math score of 26 or higher.**Course Title:** Calculus 1**Meeting Time:** Daily from 1:00 – 1:50 AM
Jan 12 to May 1**Office Room Number:** SNOW 142**Office Hours:** 9 to 10 daily, or by appointment**Author:** James Stewart

Exam dates and points possible are as follows:

Exam 1	January 23-28	100 points
Exam 2	February 9-12	100 points
Exam 3	Mar 3-6	100 points
Exam 4	March 27-April 1	100 points
Exam 5	April 23-27	100 points
Final Exam	May 1 (12:00-2:00 AM)	200 points
Homework	(5 points each)	<u>240 points</u>
TOTAL POINTS:		970 points

ATTENDANCE: Any student who misses the first two days of class will be dropped from the class.**DISHONESTY:** If it is determined that you cheated, you will receive a zero for that exam.

If cheating occurs a second time, you will receive an F for the course.

DISABILITIES: If you are a student with a medical, psychological, or learning disability, and would like accommodations or think you might have a disability, contact the Disability Resource Center (652-7516) in the Student Services Center, Room 201. The Disability Resource Center will determine eligibility based on your professional documentation and determine the appropriate accommodations related to your disability.**GRADES:** Your semester grade will be based on the following scale: **A**(92-100%), **A-**(89-92%), **B+**(86-89%), **B**(82-86%), **B-**(79-82%), **C+**(76-79%), **C**(72-76%), **C-**(69-72%), **D+**(66-69%), **D**(62-66%), **D-**(59-62%), **F**(0-59%)**GENERAL REMARKS:** It is the responsibility of each student to make time each day to read the text, attempt all homework problems, study for exams, and get extra help. Your work should be neat and easily read. Problems will be graded more for the work shown than for the final answer. Assignments should be considered a minimum and many students should work additional problems to reach mastery. Course schedules, assignments, and exam dates are subject to change as circumstances dictate.

COURSE OBJECTIVES

All mathematics classes 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 arithmetical, algebraic, and geometric methods.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of MATH 1210, a student will demonstrate through testing, the ability to:

1. Define and evaluate limits.
2. Define and identify continuity and differentiability.
3. Apply limits to graphing techniques.
4. Define the derivative.
5. Use formulas for differentiation.
6. Use the derivative to find tangents to curves.
7. Apply the derivative in problems involving extrema, and related rates.
8. Define the definite integral.
9. Apply both parts of the Fundamental Theorem of Calculus.
10. Evaluate the definite integral.
11. Use l'Hospital's Rule to evaluate limits.
12. Perform integrations by various techniques (parts, substitution, partial fractions)
13. Perform numerical integration.

MON	TUE	WED	THUR	FRI
1/12 1.1A	1/13 1.1B	1/14 1.2	1/15 1.3	1/16 1.4
1/19 MLK Day	1/20 1.5	1/21 1.6	1/22 1.7	1/23 Ch 1 Review
1/26 Ch 1 Review	1/27 2.1	1/28 2.2	1/29 2.3	1/30 2.4
2/2 2.5	2/3 2.6	2/4 2.7A	2/5 2.7B	2/6 2.8
2/9 Ch 2 Review	2/10 Ch 2 Review	2/11 3.1	2/12 3.1 (cont.)	2/13 3.2A
2/16 President's Day	2/17 3.2B	2/18 3.3	2/19 3.4A	2/20 3.4B
2/23 3.5	2/24 3.6	2/25 3.7	2/26 3.8A	2/27 3.8B
3/2 3.9	3/3 Ch 3 Review	3/4 Ch 3 Review	3/5 4.1	3/6 4.2A
3/9 S	3/10 P	3/11 R	3/12 I	3/13 N
3/16 4.2B	3/17 4.3	3/18 4.3 (cont.)	3/19 4.5	3/20 4.5 (cont.)
3/23 4.6	3/24 4.7	3/25 4.7 (cont.)	3/26 4.8	3/27 Ch 4 Review
3/30 Ch 4 Review	3/31 5.1	4/1 5.1(cont.)	4/2 5.2	4/3 5.3
4/6 5.3(cont.)	4/7 5.4	4/8 5.5	4/9 5.5(cont.)	4/10 5.6A
4/13 5.6B	4/14 5.7	4/15 5.7(cont.)	4/16 5.8	4/17 5.9
4/20 5.9 (cont.)	4/21 5.10	4/22 5.10(cont.)	4/23 Ch 5 Review	4/24 Ch 5 Review
4/27 Review for Final	4/28 Review for Final	4/29 Review for Final	4/30 Reading Day	5/1 Final Exam 12:00 – 2:00

1.1A 1,5,7,9,11,25-33odd

1.1B 37, 41, 45-53o, 57, 61-71o

1.2 1,3,5c,9-17o,19-21,25

1.3 3-55eoo (every other odd)

1.4 1-13eoo,17-29o

1.5 1, 3, 9-21o, 27, 29

1.6 3-27eoo, 37, 39, 45-55o

1.7 3-17o, 22, 31

1.R 1-3,5-8,11-17o,18-20,22-28,31,33

2.1 1-3,5-8

2.2 3-27o, 31

2.3 3-29o, 33-39o

2.4 3-13o, 16, 19, 25, 27, 35-43o

2.5 3, 7, 9-37eoo, 39-47o

2.6 1-7o, 11-21o, 29-39o, 43, 45

2.7A 1-7o, 15, 35-38, 42

2.7B 6, 10, 14, 19, 23, 25, 43, 44

2.8 1-11, 15-23eoo, 25-31o

2.R 1-17o, 21-31o, 35-39o, 40, 41-47o

3.1 3-23eoo,29,41,42,45,47-49,51-57o,61,65

3.2A 1-45eoo

3.2B 2,3-31eoo,43,53,54

3.3 1-23o, 27-45o

3.4A 3, 5, 7-35eoo

3.4B 4, 12, 30, 38, 51-59o, 63, 67, 79, 81, 86

3.5 1-25eoo, 33, 39, 41, 43, 52

3.6 1-11o, 17-27o, 31, 32, 37-40

3.7 3-27eoo,29-43o

3.8A 1-19o

3.8B 20, 21-31o

3.9 1,5-11o,24-27,29

3.R 1-35eoo, 39-44, 51-56, 63-66

4.1 3,5,11-27eoo,31-43o,20

4.2A 3-11o,23-43eoo

5.6B 10,11-31eoo,42

5.7 1-15o,19,20,23,25,31,33

5.8 1-29eoo

5.9 5,7,9,13(to 3 decimals),17c,19c,27,31

5.10 5-33eoo,19,43,49

5.R 2-5,7,9-33eoo,35-49o,55-61o

4.2B 13, 41, 47-61o

4.3 1,7-31eoo,33,35,41,45,59-63o

4.5 5-45eoo,47

4.6 3-47eoo, 54, 57

4.7 3-21o, 25, 29, 31

4.8 1-37eoo, 39-43o, 47-51o

4.R 1-15o, 25-43o, 47-55o, 58, 61

5.1 1a,3a,5b,5c,11,17

5.2 1,5,11,21-25o,31,35-45o

5.3 1-29eoo,33-37o,43-49o,57-63o

5.4 3-17o,19

5.5 1-53eoo,55-59o

5.6A 1-33eoo

Testing Center Hours

Monday - Friday

9 AM to 10 PM

Saturday

2 PM to 10 PM

Sunday

4 PM to 10 PM