

MATH 1210 (22034-50)
North Instructional Bldg 133
Spring 2011
Office: NIB 134

5:15 pm - 6:45 pm
Monday / Tuesday / Thursday (5 CR)
5 Credit Hours
Hours: 6:45 – 7:30 p.m. Tuesday and Thursday (by appointment)

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Text: James Stewart (2010), *Calculus: Concepts & Contexts* (4th ed.).

Prerequisite: C or better in Math 1065 or both Math 1050 and Math 1060

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 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 and use it in applications.
11. Use the definite integral to find areas between curves, and volumes of solids of revolution.
12. Use l'hospital's Rule to evaluate limits.
13. Perform integrations by various techniques (pans, substitution, partial fractions)
14. Perform numerical integration.

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 every time.
2. Homework will be collected, graded, and returned on the Thursday at the beginning of an exam. Please label each homework assignment VERY clearly. Late homework will receive half-credit (up to one week after the exam). Too-late homework (more than one week after the exam opens) will receive no credit. Other assignments as wells as bonus papers will be announced in class.
3. A graphing calculator is required. A TI-84 will be used in class.
4. Cheating will not be tolerated and may result in an F.
5. 14 exams will be given during the course (50 points each). The lowest two test scores (not including the final) will be dropped at the end of the semester; therefore no test extensions will be given during the course. The final exam is comprehensive.

GRADING:

14 Exams	7 HW	Final Exam	Total = 1010 pts
50 Each	30 Each	100 Points	100 points dropped
=700 points	= 210 points	= 100 points	New Total = 910 pts
=66% of final grade	=23% of final grade	=11% of final grade	=100% of final grade

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

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.

All information sent from the college 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.

A DSC Calendar that includes all dates relative to the current semester at the college is available at <http://new.dixie.edu/reg/?page=spring2011>

All students enrolled in this class MUST complete an online form for the instructor during the first week. Students who do not complete this form may be dropped from the class. Access the form through the link on Blackboard Vista. If you cannot get the link, send me an e-mail (reimer@dixie.edu)

Changes will be announced in class. Students are responsible to note all changes made.