

MATH-1210-50 SP12

Jump to Today

MATH 1210 5:15 pm - 6:45 pm
Robert Reimer reimer@dixie.edu
Spring 2012 (435) 467-1153
Office Hours: 6:45 – 7:30 p.m. Tuesday and Thursday
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.

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, each Tuesday. Please label each homework assignment VERY clearly. Late homework will receive half-credit (up to a week late). Too-late homework (more than one week late) 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. See the DSC policies.
5. The final exam is comprehensive.
6. The lowest of the five exams will be dropped. The final will not be dropped. A student who does not take the final will receive an F.

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. 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://www.dixie.edu/reg/?page=calendar>

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

Date	Day	Details
Jan 9	Mon	Intro, 1-1 12am
Jan 10	Tue	1-2 and 1-3 12am
Jan 12	Thu	No Class 12am
Jan 16	Mon	NO SCHOOL 12am
Jan 17	Tue	1-5 and 1-6 12am 1-1, 1-2, 1-3 due by 11:59pm
Jan 19	Thu	1-7 12am
Jan 20	Fri	Exam 1 12am
Jan 21	Sat	Exam 1 12am
Jan 22	Sun	Exam 1 12am
Jan 23	Mon	2-1 12am Exam 1 12am Exam 1 due by 11:59pm
Jan 24	Tue	2-2 12am 1-5, 1-6, 1-7 due by 11:59pm
Jan 26	Thu	2-3 12am
Jan 30	Mon	2-4 12am
Jan 31	Tue	2-5 12am 2-1, 2-2, 2-3 due by 11:59pm
Feb 2	Thu	2-6 12am
Feb 6	Mon	2-7 12am
Feb 7	Tue	2-4, 2-5, 2-6 due by 12am 2-8 12am
Feb 9	Thu	No Class 12am
Feb 10	Fri	Exam 2 12am

Date	Day	Details
Feb 11	Sat	Exam 2 12am
Feb 12	Sun	Exam 2 12am
Feb 13	Mon	3-1 12am Exam 2 12am Exam 2 due by 11:59pm
Feb 14	Tue	3-2 12am 2-7, 2-8 due by 11:59pm
Feb 16	Thu	3-3 12am
Feb 20	Mon	NO SCHOOL 12am
Feb 21	Tue	3-4 12am 3-1, 3-2, 3-3 due by 11:59pm
Feb 23	Thu	3-5 12am
Feb 27	Mon	3-6 and 3-7 12am
Feb 28	Tue	3-8 12am 3-4, 3-5 due by 11:59pm
Mar 1	Thu	3-9 12am
Mar 2	Fri	Exam 3 12am
Mar 3	Sat	Exam 3 12am
Mar 4	Sun	Exam 3 12am
Mar 5	Mon	4-1 12am Exam 3 12am Exam 3 due by 11:59pm
Mar 6	Tue	4-2 12am 3-6, 3-7, 3-8, 3-9 due by 11:59pm
Mar 8	Thu	4-3 12am
Mar 12	Mon	NO SCHOOL 12am
Mar 13	Tue	NO SCHOOL 12am
Mar 15	Thu	NO SCHOOL 12am
Mar 19	Mon	4-4 12am
Mar 20	Tue	4-5 12am 4-1, 4-2, 4-3 due by 11:59pm
Mar 22	Thu	4-6 12am
Mar 26	Mon	4-7 12am
Mar 27	Tue	4-8 12am 4-4, 4-5, 4-6 due by 11:59pm
Mar 29	Thu	5-1 12am

Date	Day	Details
Mar 30	Fri	Exam 4 12am
Mar 31	Sat	Exam 4 12am
Apr 1	Sun	Exam 4 12am
Apr 2	Mon	5-2 12am Exam 4 12am Exam 4 due by 11:59pm
Apr 3	Tue	5-3 12am 4-7, 4-8, 5-1 due by 11:59pm
Apr 5	Thu	5-4 12am
Apr 9	Mon	5-5 12am
Apr 10	Tue	5-6 12am 5-2, 5-3, 5-4 due by 11:59pm
Apr 12	Thu	5-7 12am
Apr 16	Mon	No Class 12am Take Home Final 12am
Apr 17	Tue	No Class 12am Take Home Final 12am
Apr 19	Thu	No Class 12am Take Home Final 12am
Apr 20	Fri	Exam 5 12am
Apr 21	Sat	Exam 5 12am
Apr 22	Sun	Exam 5 12am
Apr 23	Mon	5-10 12am Exam 5 12am Exam 5 due by 11:59pm Take Home Final due by 11:59pm
Apr 24	Tue	Final Review 12am 5-5, 5-6, 5-7, 5-10 due by 11:59pm
Apr 26	Thu	Final Review 12am
May 1	Tue	Final Exam due by 5pm