

Course Number: MATH 1220**Section Number:** 01**Room Number:** NIB 136**Instructor:** Ross Decker**Office Phone Number:** 652-7763**Text:** Calculus—Concepts and Contexts (4th Edition)**Prerequisites:** C or better in **MATH 1210**.**Course Title:** Calculus 2**Meeting Time:** MTWR 9:00 – 9:50

Aug 22 to Dec 12

Office Room Number: NIB 139**Office Hours:** 8 to 9 daily, or by appointment**Author:** James Stewart

Exam dates and points possible are as follows:

Exam 6	September 8-12	100 points
Exam 7	September 21-23	100 points
Exam 8	October 19-21	100 points
Exam 9	November 14-16	100 points
Exam 10	December 5-7	100 points
Final Exam	Dec 12 10:00-12:00	200 points
Homework	(5 points each)	<u>185 points</u>
TOTAL POINTS:		885 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 1220, a student will demonstrate through testing, the ability to:

1. Solve separable differential equations.
2. Use the definite integral to find areas between curves, and volumes of solids of revolution.
3. Find the length of a curve.
4. Find the area of a surface of revolution.
5. Find moments and centers of mass.
6. Perform polar coordinate transformations and graph the results.
7. Use calculus techniques on equations defined with parametric and polar coordinates.
8. Graph conics in both rectangular and polar coordinates.
9. Use various tests to determine convergence/divergence of series.
10. Represent functions as power series.
11. Perform vector arithmetic, including dot products and cross products.
12. Determine lines and planes in space.
13. Represent coordinates and equations in rectangular, cylindrical, and spherical format.
14. Use plane and space vectors to solve applications in geometry and physics.
15. Use space curves to analyze the motion of an object.

MON	TUE	WED	THUR	
8/22 6.1	8/23 6.2	8/24 6.3	8/25 6.4	6.1 1,3,11,13,21,25,26,29,33,35,39,41 6.2 1-17odd, 25,26,28,31,33,40,45
8/29 6.5	8/30 6.6A	8/31 6.6B	9/01 6.6C	6.3 1-17odd,21-25o,29-33o 6.4 1,2,3-9o,23,24,29
9/05 Labor Day	9/06 6.7	9/07 Review Ch 6	9/08 Exam 6	6.5 1-7o,10-13.15 6.6A 1-11o,13-15,17,19,20
9/12 7.1	9/13 7.2	9/14 7.3	9/15 7.3(cont.)	6.6B 31-35,37,39,40 6.6C 43-45,47,49,50
9/19 7.4	9/20 Review Ch 7	9/21 Exam 7	9/22 8.1	6.7 1-9odd, 10,15,17 6R 1,4,9-11,16,19-25o,28-34
9/26 8.2A	9/27 8.2B	9/28 8.3	9/29 8.4	7.1 1,2,5,6,8,11,13 7.2 1,3-7,10,15,27
10/03 8.4(cont.)	10/04 8.5	10/05 8.5(cont.)	10/06 8.6	7.3 1,3,9-12,13-21o,29-33o,45,47,48 7.4 3,4,6,8,11,13,15,19,20,22
10/10 8.6(cont.)	10/11 8.7	10/12 8.7(cont.)	10/13 Fall Break	7R 1,5-11o,15,16,19,20 8.1 3-8,9-33o,49,50,52
10/17 8.8	10/18 Review Ch 8	10/19 Exam 8	10/20 9.1	8.2A 3,5,9-17odd,18,19-29odd 8.2B 31,33,37,39,45,52ab
10/24 9.2	10/25 9.3	10/26 9.3(cont.)	10/27 9.4	8.3 3,4,5-27odd, 8.4 1-3,5-9o,15,21,25-29o,33,37-39
10/31 9.5A	11/01 9.5B	11/02 9.6	11/03 9.6(cont.)	8.5 3-23odd 8.6 3-9odd,13,17,19,23,27
11/07 A.H-1	11/08 A.H-2	11/09 9.7	11/10 Review Ch 9	8.7 5-9,11,13,14,21-25,29,30,35,29,47,51,55 8.8 2,8,14a,20
11/14 Exam 9	11/15 Career Day	11/16 10.1	11/17 10.2	8R 1-7,10-12,14-20,23-27,31,33,36-39,43,45-47 9.1 1-31odd,18,39
11/21 10.2(cont.)	11/22 10.3 A	THANKS GIVING		9.2 3-31odd,30,32 9.3 3-9o,14,17-23o,24,26,27,29,32,35,37,43
11/28 10.3 B	11/29 10.4	12/01 10.4(cont.)	12/02 Review Ch 10	9.4 5-7,13-27odd,32 9.5A 3,5,7,8,13-19odd
12/05 Exam 10	12/06 Final Review	12/07 Final Review	12/08 Final Review	9.5B 21-43o,55,57 9.6 1,3,9-17odd,21-23,29
12/12 Final Exam 10:00-12:00				A-H.1 1-19odd,23-27o,31,41,48,49,53 A-H.2 1-31odd,35-39o 9.7 1-23odd
9R 1,3-6,9-26,29-43				
10.1 1-9odd,15,17,19-24,36				
		10.2 3,5,6,9-23odd,30,33,37		
		10.3A 1-3,7,9,15-21odd,24,26		
			10.3B 11,13,37,39,41,43	
			10.4 3,6,9-27odd,31,33	
			10R 1-6,8-20	

Testing Center Hours

Monday - Friday

9 AM to 10 PM

Saturday

2 PM to 10 PM

Sunday

4 PM to 10 PM

Other Useful Stuff

College approved absences: Dixie College Policy explains in detail what needs to happen if you anticipate being absent from class because of a college-sponsored activity (athletic events, club activities, field trips for other classes, etc). Please read this information and follow the instructions carefully! The policy can be found at: www.dixie.edu/humanres/policy/sec5/523.html

Dmail: Important class and college information will be sent to your Dmail account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

Important DSC dates to remember

Mon, Aug 22	Classwork Starts
Wed, Aug 24	Last day to add without a signature
Mon, Aug 29	Drop fee begins (\$10 per class)
Mon, Sep 5	Labor Day
Tue, Sep 6	\$50 Late registration/payment fee
Mon, Sep 12	Last day for refund
Mon, Sep 12	Last day to drop without a "W" grade
Fri, Sep 16	Last day to add classes
Fri, Sep 30	Last day to apply for graduation
Thurs, Fri, Oct 13-14	Semester break
Mon, Oct 17	Last day to drop or audit classes
Fri, Nov 11	Last day for complete withdrawal
Tue, Nov 15	Career Day
Wed-Fri, Nov 23-25	Thanksgiving break
Fri, Dec 9	Last day of classes
Mon-Fri, Dec 12-16	Final exams

Disability Accommodations: 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 (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located in the North Plaza Building. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

College resources: Several college resources are available to help you succeed. Check out the links for each one to get more information.

If you need help understanding the content of your courses, go to the Tutoring Center located in

the Browning Learning Center, Room 105. There is a schedule of what courses have tutors at what times outside the door. You can also visit them online at <http://dsc.dixie.edu/tutoring/>

If you need help writing papers, go to the Writing Center in the Browning Learning Center, Room 105. You can also visit them online at http://new.dixie.edu/english/dsc_writing_center.php

If you need to use a computer to do schoolwork on campus, go to the Computer Center in the Smith Computer Center or the Library basement.

If you are assigned to take a test in the Testing Center, go to the North Plaza. You can get information on their website at <http://new.dixie.edu/testing/>

The Library has all kinds of information and resources. Visit the Val Browning Library or go to the library website at <http://library.dixie.edu/>

Classroom expectations: It is the responsibility of an instructor to manage the classroom environment to ensure a good learning climate for all students. This means not talking when the teacher is talking, following instructions, and speaking and acting respectfully to the professor and fellow students. If your behavior is disruptive, I will first let you know verbally that you are behaving inappropriately. If it continues, I will send you written notice that your behavior must change. As a last resort, I will drop you from the class. For more details, please see the disruptive behavior policy at: <http://www.dixie.edu/humanres/policy/sec3/334.html>

Academic integrity: I believe that most students are honest, and I don't want to punish everyone for the few that aren't. However, I will not tolerate cheating, and if I discover that it has occurred, a zero grade will be given for that assignment or exam, and you will not be allowed to make it up. Repeated or aggravated offenses will result in failing the course.

Any time you take credit for work you did not do, you are cheating. This includes getting the answers to homework problems from someone else, copying information from a library or internet source and presenting it as if it were your own words (plagiarism), looking at someone else's answers on an exam, and asking someone who has already taken a test about what questions it contains.

I have tried to design assignments and exams to minimize the temptation to cheat, but it is not my job to prevent you from cheating. If you cheat and are not caught, it doesn't mean that you "beat the system." It means you violated the Student Code and forfeited your integrity, whether or not you are caught. You will pay the price, sooner or later. Having served on the committee that disciplines students for academic dishonesty, I can promise you that it is better to fail an assignment or even a class than to cheat and lose the chance to continue your education. (See "Student Code" <http://library.dixie.edu/policies/studentcodesectionfour.pdf> page 8).