

MATH 1210-01 CALCULUS
SPRING 2015

Instructor: COSTEL IONITA
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Time: 9:00-9:50 MTWThF
Place: SNOW 150
Office Hours: 10:00-10:50 M-Th, 12:00-12:50 M-Th,
or by appointment
Text: Calculus, Concepts and Contexts, 4th edition;
by James Stewart

1. OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college. Within the limitations imposed by the nature of mathematics (i.e. the dependency on prior learning and the need for content fluency) each class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- 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. Use L'Hospital's Rule to evaluate limits.
10. Perform integration by various techniques (parts, substitution, and partial fractions).
11. Perform numerical integration.
12. Approximate area under curves.

DMAIL: Important class and college information will be sent to your Dmail email 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 email 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 DATES Go to: <http://www.dixie.edu/reg/?page=spring2015>

CLASS ATTENDANCE AND PARTICIPATION: It is your responsibility to attend class although it is not required. Be willing to be involved in the class as an active participant. ASK questions, contribute toward solutions, and be interested in the class activities.

GETTING HELP: Use the office hours! I do not plan anything during those times so if you do not stop by I am getting very bored. Use them as much as you can. That's why I am here. Also check regularly the website <http://www.stewartcalculus.com>.

HOMEWORK: Keep in mind that math is a skill that can only be learned and mastered by doing it yourself with lots of practice. Do not attempt to do a whole chapter's assignment at one sitting. A minimum of two hours spent studying outside of class for each hour in class is usually required for college courses.

GRADING: There are five tests that will makeup 70% of your grade. The final exam will be comprehensive and makeup 15% of your grade. There will be homework assignments that will makeup 15% of your grade. All tests

count toward your grade. The lowest test score can be replaced by the percent on the final exam. Make-up exams as a general rule will not be given.

GRADING SCALE: **A** (90-100%), **B+** (87-89.99%), **B** (83-86.99%), **B-** (80-82.99%), **C+** (75-79.99%), **C** (70-74.99%), **C-** (65-69.99%), **D+** (60-64.99%), **D** (55-59.99%), **D-** (50-54.99%), **F** (0-49.99%).

Monday	Tuesday	Wednesday	Thursday	Friday
01/12 1.1: 1-11odd,15,25-31odd	01/13 1.1: 39,43,45,47,49,53,55	01/14 1.2: 3,5,9,17,19,20	01/15 1.3: 1,3,5,7,13,21,29,31,40,41,43,51,53,63,64	01/16 1.3: cont'd
01/19 NO SCHOOL	01/20 1.5: 1,2,3,4,7,11,19,21,24,29,31,35	01/21 1.6: 3-11odd,21,25,35-41,49,51	01/22 1.7: 1-19odd,27,42	01/23 Review 3,5,17,19,24,25,26
01/26 Review TEST 1	01/27 2.1: 1,3,5,7	01/28 2.2: 3,5,15,17,21,31	01/29 2.3: 3-23odd,27,29,31,37,38,49	01/30 2.3: cont'd
02/02 2.4: 3,15-18,27-35odd,41,43,51,55	02/03 2.4: cont'd	02/04 2.5: 3,15-39odd,53	02/05 2.5: cont'd	02/06 2.6: 3-9odd,16-21,23-39odd
02/09 2.7: 3-9odd,14,19-29odd,41,42,43,45,47	02/10 2.8: 1-11odd,15,19,23,25,26,27,28,29,31	02/11 2.8: cont'd	02/12 Review: 1-17odd	02/13 Review TEST 2 21-25odd,39,43,45
02/16 NO SCHOOL	02/17 3.1: 3-33odd,41,45,47-55,65,69,71	02/18 3.2: 1-31odd	02/19 3.2: 41-47odd,51,53	02/20 3.3: 1-27odd
02/23 3.3: 28,29,31,37,39,41,43,45,49	02/24 3.4: 1-43odd,49,51,55	02/25 3.4: 61,65,67,79,81,86	02/26 3.5: 3-27odd,41,43	02/27 3.6: 1-9odd
03/02 3.6: 17,19,21,37,39	03/03 3.7: 3-23odd,33-43odd,47	03/04 3.8: 1,7,9,10,14	03/05 3.8: 15,20,29,30,31	03/06 3.9: 5,7,9,25,29
03/09 NO SCHOOL	03/10 NO SCHOOL	03/11 NO SCHOOL	03/12 NO SCHOOL	03/13 NO SCHOOL
03/16 3.9: cont'd	03/17 Review: 1-39odd,40,45,63,65	03/18 Review:67,77 TEST 3	03/19 4.1: 1-15odd	03/20 4.1: 20,22,26,29,30
03/23 4.2: 1,3,5,23-43odd	03/24 4.2: 47,53,57	03/25 4.3: 6,7-15odd,21-33odd,59,63,65	03/26 4.5: 1-45odd	03/27 4.5: cont'd
03/30 4.6: 3,5,9,11,12,14	03/31 4.6: 15,23,25,26,38,57	04/01 4.7: 5,11,17,19,21	04/02 4.8: 1-35odd	04/03 4.8: 41,43,49
04/06 Review: 1,7,15,25,27-33odd,39,47,53,55	04/07 Review TEST 4	04/08 5.1: 3,5,17,21	04/09 5.2: 17,19,21,23,25,31-43odd,51	04/10 5.3: 1-31odd,43-49odd,59,61
04/13 5.4: 3,7-17odd,21,23	04/14 5.5: 1-61odd	04/15 5.5: cont'd	04/16 5.6: 1-29odd	04/17 5.6: cont'd
04/20 5.7: 1-13odd,21,29,31	04/21 5.10: 1-33odd	04/22 5.10: 43,51,61	04/23 Review 1-33odd,8,39,41,55	04/24 Review: 57,59 TEST 5
04/27 Final Review	04/28 Final Review	04/29 Final Review	04/30 Final Review	05/01 No class

FINAL EXAM on TUESDAY, May 5, 8:00-10:00 am.