

**SYLLABUS---MATH 1100 MML SECTION 50**  
**BUSINESS CALCULUS**  
**CRN 20400**  
**Spring 2014**

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Office hours: T 6:30 – 6:45 and TH 8:00 – 8:30 p.m. by appt

Classroom: SNOW 125  
Class time: Tu, Th 5:15 to 6:30 p.m.  
Date Range: Aug 25, 2014 – Dec 19, 2014  
Computer Software based on Text:  
CALCULUS AND ITS APPLICATIONS  
Bittinger/Ellenbogen 10th Edition

## **MyMathLab Course ID #: reimer91236**

**No text book is required.** This section will be taught as a lecture course but will include an extensive computer based component. This means all homework, review problems and tests will be done, checked and submitted to the instructor on the computer through a program called My Math Lab. <http://www.mymathlab.com> **You will need access to a computer with internet for daily assignments.** Computer labs on campus are available to those students who do not have internet access. You will receive more complete instructions on the first day of class.

### **What to Do First**

- Register for MyMathLab by going to <http://www.mymathlab.com>. Purchase an access code from the bookstore, an online retailer or from the MyMathLab site. (A 15-day free trial is available through the MyMathLab website)
- Under the heading “Register”, click “Student”.
- Enter your course ID.
- Follow the instructions to either create an account, or sign in if you have an existing account.

All of the homework assignments, reviews, and tests are on MyMathLab.

### **I Have Access to MyMathLab (MML), What Next?**

- Log on to MyMathLab (MML) and, if you are using your own computer, be sure to download any required plugins by clicking on the “browser check” on the home page. You are now ready to do math.
- Go back to the MML homepage and click on “Multimedia Library” on the left column of icons. Explore the different options available for any given chapter and section.
- Go back to the MML homepage. Click on the “Homework” icon on the left side of the screen. This will take you to all of the homework assignments. Click on “HW R.1” and complete the assignment.
- Upon scoring an 80% or better on the homework assignment, go back to the MML homepage and follow the same process for every section. After you have completed all Homework for a chapter with 80% or better, take the chapter test.

**OBJECTIVES:** All classes in mathematics at Dixie College support the general education goal of the college, and 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 this course, the students will demonstrate through testing the ability to:

1. Discuss and analyze the concept of limits and the interrelationships of the graphic, numeric, and symbolic approaches to limits.
2. Discuss and analyze the interpretations of functions and their first and second derivatives.
3. Apply basic calculus techniques to data and functions that serve to mode real-life applications of business, economics, social science, and architecture careers.

4. Apply the definite integral as the limit of a sum to applications in the areas of business, economics, sociology, and ecology.
5. Understand Quantitative Analysis and how it applies to business. This is a technique that seeks to understand behavior by using complex mathematical modeling and by assigning a numerical value to variables to try to replicate reality mathematically.

(Prerequisite: Math 1050 or 1065. Also required are basic skills on a graphing calculator.

**ASSIGNMENTS and REVIEWS:** Homework assignments and reviews are to be completed on MML. You **must score** a minimum of 80% on homework assignments in order to access the chapter test. Review assignments do not have a minimum score but count the same as the homework assignments. You may correct individual homework problems in order to improve your overall score on the assignment and you may complete exercises in a homework assignment as many times as needed to achieve 80%. Due dates are posted in MML – generally the homework and review close on the same day as the exam closes. Assignment scores can be improved anytime, however, but they must be completed to 80% before accessing the tests.

**EXAMINATIONS:** Each student is expected to take the examinations as scheduled in the syllabus. All exams must be taken in the testing center. Remember, you must score a minimum 80% on each homework assignment in the chapter in order to access the respective chapter test. You may take exams #1 – 3 up to **two times** to improve your score and only the highest score will be counted. A final comprehensive exam (which includes chapters 5 and 6) will be given at the end of the term and is worth 20% of your grade. **You will only have one attempt to take the Final Exam.**

**TESTING CENTER:** For current testing center hours, go to <http://dixie.edu/testing>

**ATTENDANCE:** Attendance is essential and roll will be taken. Tardiness will be frowned upon and may invoke the ire of the instructor.

**MyMathLab (MML):** Please make sure you check your MML site frequently since class information will be posted there. Go to <http://www.mymathlab.com/> to access MML.

**Disability Resource Center:** If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the North Plaza. The Disability Resource Center (<http://dixie.edu/drcenter/>) will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.

**Receiving your grades at the end of the semester:** Your course letter grade will be posted on Banner as soon as the Final Exam has been graded and the overall course average calculated (usually within 48 hrs after Exam has been taken).

**Withdrawing from or dropping a class:** If you never attend a class, the instructor may withdraw you from it. If you attend even one day, the instructor cannot withdraw you from the class. Since not all instructors will withdraw you for non-attendance, you should take care of that transaction for yourself by going to the registration window. If you quit attending and do not withdraw from the class, you will receive an F or WF which averages into your GPA as an F.

**Changing your schedule:** It is your responsibility, as the student, to ensure the accuracy of your class schedule. Be sure to check your schedule after every change you make to it. Run a hard copy and keep it!

**Complete Withdrawal:** Dropping all classes does not withdraw you from the college and you may receive all F's. You must contact the Advisement Center, complete a withdrawal form, and surrender your student ID card.

**Changes:** Although unlikely, this syllabus and/or the assignment schedule may be changed if deemed necessary by the instructor. All changes will be announced in class and/or sent to your dmail, Canvas, or MML account.

**Miscellaneous Information:** Click on this link - <http://www.dixie.edu/reg/syllabus/> - for comprehensive information on the Semester Dates, the Final Exam Schedule, University resources such as the library, Disability Resource Center, IT Student Help Desk, Online Writing Lab, Testing Center, Tutoring Center, and Writing Center. In addition, please review DSU policies and statements with regards to Academic Integrity, Disruptive Behavior and Absences related to university functions.

**Grades will be based on:** All exams: 20% of the final grade. Homework: 20% of the final grade. You can see your grade and all your scores on My Math Lab (Grade book) Letter grades will be assigned as follows:

|           |           |           |          |           |          |           |          |
|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|
| <b>A</b>  | 100 – 94% | <b>B</b>  | 86 – 83% | <b>C</b>  | 74 – 70% | <b>D</b>  | 59 – 55% |
| <b>A-</b> | 93 – 90%  | <b>B-</b> | 82 – 80% | <b>C-</b> | 69 – 65% | <b>D-</b> | 54 – 50% |
| <b>B+</b> | 89 – 87%  | <b>C+</b> | 79 – 75% | <b>D+</b> | 64 – 60% | <b>F</b>  | 49 – 0%  |

|        | Day   | M-1100.1 Assignment F 14      | Test                          |
|--------|-------|-------------------------------|-------------------------------|
| Jan 13 | Tues  | Orientation, Chapter R        |                               |
| Jan 15 | Thurs | Chapter R                     |                               |
| Jan 20 | Tues  | 1.1, 1.2                      |                               |
| Jan 22 | Thurs | 1.3, 1.4                      |                               |
| Jan 27 | Tues  | 1.5                           |                               |
| Jan 29 | Thurs | 1.6                           | No Lecture Class this evening |
| Feb 3  | Tues  | 1.7, 1.8                      |                               |
| Feb 5  | Thurs | REVIEW                        | Test #1 Opens February 5      |
| Feb 10 | Tues  | 2.1, 2.2                      | Test #2 Closes February 9     |
| Feb 12 | Thurs | 2.2 (Cont.), 2.4              |                               |
| Feb 17 | Tues  | 2.5                           |                               |
| Feb 19 | Thurs | 2.5 (Cont.)                   |                               |
| Feb 24 | Tues  | 2.6                           |                               |
| Feb 26 | Thurs | 2.7                           | Test #2 Opens February 27     |
| Mar 3  | Tues  | REVIEW                        |                               |
| Mar 5  | Thurs | REVIEW                        | Test #2 Closes March 6        |
| Mar 10 | Tues  | Semester Break                |                               |
| Mar 12 | Thurs | Semester Break                |                               |
| Mar 17 | Tues  | 3.1                           |                               |
| Mar 19 | Thurs | 3.2                           |                               |
| Mar 24 | Tues  | 3.3, 3.4                      |                               |
| Mar 26 | Thurs | 3.5, 3.6                      |                               |
| Mar 31 | Tues  | 4.1, 4.3                      |                               |
| Apr 2  | Thurs | 4.4, 4.5                      | Test #3 Opens April 3         |
| Apr 7  | Tues  | 5.1                           | Test #3 Closes April 6        |
| Apr 9  | Thurs | 5.2                           |                               |
| Apr 14 | Tues  | 5.2 (Cont.), 5.3              |                               |
| Apr 16 | Thurs | 5.7, 6.1                      |                               |
| Apr 21 | Tues  | 6.2, 6.3                      |                               |
| Apr 23 | Thurs | Review for Final Exam         | Final Exam Opens April 27     |
| Apr 28 | Tues  | No Class Lecture this evening | Final Exam Closes April 28    |