

BUSINESS CALCULUS

MA 1613 – Calculus for Business and Life Sciences I – 3 hours lecture

(Prerequisite: ACT Math subscore 24, or grade of C or better in MA 1313)

Algebraic and some transcendental functions, solutions of systems of linear equations, limits, continuity, derivatives, applications

TEXTBOOK: CALCULUS WITH APPLICATIONS – Custom Edition for Mississippi State University; Lial, Greenwell, & Ritchey.

TESTS:

There will be **four** major in-class tests given this semester. Each test will count 100 points. The test questions will be similar to the examples done in class and the homework questions from My Math Lab and your textbook. The final exam will be a departmental exam and will cover the entire semester. It will consist of 40 Multiple Choice Questions.

There will be a **quiz grade** valued at 150 points. The quiz grade will consist of 10 quizzes from MY MATH LAB. Each quiz will count 15 points. The quizzes will be taken in the MATH DOMAIN, located on the first floor of Allen Hall (Allen 111). You will have 1 chance per quiz. However, there will also be sample quizzes that you may take anywhere and as many times as you like. The sample quizzes will be very similar to the quiz you take in the MATH DOMAIN. It is the student's responsibility to check the calendar on MY MATH LAB and submit each quiz on time. We will not accept quizzes after the due date. Each quiz will have a begin date and end date. MY MATH LAB should be packaged with your textbook and will contain your own student access code. You may use your book and notes during the quizzes. Each quiz is password protected.

There will be a **homework** grade valued at 50 points. These problems will be assigned on MY MATH LAB. You may complete the homework anywhere you like. There are around 109 problems total. This means that each problem is worth approximately 0.46 points. You must check the calendar on My Math Lab for due dates. There will also be homework problems assigned from your text. The textbook problems will not have any point value, but are vital to your success in this course.

NO Make-Up tests will be given. Arrangements should be made ahead of time if you must miss a scheduled test. If you are absent on a test day and have a valid, written excuse, then the final exam will count in place of the missed test. If you do not have an excuse, you will receive a 0. The final exam will count for only 1 missed test. A 0 will be assigned for any other missed test. It is usually not a good idea to substitute the final exam for a missed test, except in the case of an emergency. Everyone **must** take the final exam. There are no exemptions.

BONUS POINTS:

If you miss 0 – 3 days of class (**excused or unexcused**), you will receive 40 bonus points that will be added to your point total at the end of the semester. If you miss 4 or more days (**excused or unexcused**), you will not receive the bonus points. There will also be a **questionnaire** that will be completed in the MATH DOMAIN. It will be worth **10** bonus points. Therefore, there are **50 bonus points** available to each student.

POINTS:

4 Tests	400 points
Final Exam	200 points
Quizzes	150 points
Homework	50 points
Bonus	50 points

GRADING SCALE:

720 – 850 points -	A
640 – 719 points-	B
560 – 639 points-	C
480 – 559 points-	D
0 - 479 points	F

Electronic Devices: All pagers, cell phones and other electronic equipment should be turned off during class. This includes text messaging. If anyone has a cell phone out during a test, your test paper will be collected and you will receive a 0 for the test grade. Cell phones are not allowed in the MATH DOMAIN during quizzes.

The Learning Center, located in Allen 267, offers free tutoring services provided by MSU students. The center is open from 2 p.m. – 7p m. Monday – Thursday. The phone number is (662) 325 – 2957.

Calculators: Scientific calculators are allowed on all in-class tests and the final exam. However, calculators with a Computer Algebra System are not allowed. This includes, but is not limited to, the TI-89, the TI-92, and the Casio Algebra FX 2.0. **Graphing calculators** are also **not** allowed on the in-class tests or the final exam. You may not use any calculator that is also a cell phone or PDA.

THIS SYLLABUS MAY BE AMMENDED AS DEEMED NECESSARY BY THE INSTRUCTOR.

Text: Calculus with Applications, 8th edition
Lial, Greenwell, and Ritchey

<u>SECTION</u>	<u>PAGE</u>	<u>PROBLEMS</u>
2.1	59	21 – 39 odd, 45, 47 , 55-60, 61, 63, 65
2.4	99	3-11, 13-25 odd, 33-37 odd
2.5	113	1-23 odd, 24, 27, 29, 31
3.1	152	1-12, 31-52
3.2	164	1-12, 19-28
3.3	173	1, 3, 5, 9, 13, 15, 27, 28
3.4	191	11, 13, 17, 19, 21, 31-35
4.1	223	1-22, 27-39, 41, 50-55
4.2	234	1-7 odd, 11-21, 31, 36
4.3	243	1, 3, 5, 9, 11, 22, 23-33 odd, 37, 38, 39
4.4	251	1-19 odd, 33
4.5	260	1-13 odd, 19, 25, 27
5.1	278	1-8, 9-21 odd, 35, 36, 37, 43
5.2	292	1-23 odd, 35, 36, 38, 41
5.3	306	1-19 odd, 22, 25, 27-32, 33, 35, 37, 48-53
5.4	318	3, 5, 7, 11, 13, 15, 17, 35 (Review vertical and horizontal asymptotes in Section 2.3)
6.1	331	1, 3, 11, 13, 15, 17, 19
6.2	341	1, 3, 9, 10, 11, 13

Sections 2.6 and 6.4 are optional.