COURSE SYLLABUS - MAT 203  
Business Calculus Section 04  
Tuesday, Thursday 10:50 – 12:05 pm in Walters 279

COURSE DESIGNATION  
MAT 203. BUSINESS CALCULUS. Graphs, lines, functions, limits, continuity, curve sketching, differentiation, optimization and their applications to business with polynomial, algebraic, exponential and logarithmic functions, functions of several variables and partial derivatives. Prerequisites: MAT 106 or a grade of “C” or higher in MAT 104. 3 hours.

TEXT  

INSTRUCTOR  
Dr. Lee Virden  Walters 270C  lvirden@deltastate.edu  Office Phone: 846-4511

COURSE OBJECTIVES  
Upon completion of the course, the student will be able to:

1. Recognize, graph, and demonstrate an understanding of the behavior of linear, polynomial, exponential, logarithmic, and algebraic functions.
2. Demonstrate an understanding of the concept of the derivative of a function.
3. Demonstrate an understanding of the concept of the definite integral of a function.
4. Determine the derivatives of linear, polynomial, exponential, logarithmic, and algebraic functions.
5. Use the derivative in business applications to include marginal analysis and optimization.
6. Use the integral in applied business settings.

Subject Matter or Content to be Studied

1. Brief review of linear, polynomial, exponential, logarithmic, and algebraic functions.
2. The derivative
3. The definite integral
4. Business applications of the derivative
5. Business applications of the definite integral

GRADING AND EVALUATION  
Grades will be assigned using the scale: A(90 - 100)  B(80 - 89)  C(70 - 79)  D(60 - 69)  F(below 60)

1. Homework will be assigned on a regular basis and may be collected to be graded. Announced and unannounced daily quizzes will also be given throughout the semester. No credit will be given for answers only unless we have agreed on this prior to the individual assignment. You may use your calculator on all in-class work, homework, and tests.
2. Four scheduled tests will be given during the semester. The average of homework, daily quizzes, and in-class work will count as an additional test. These scores will comprise 75% of your final grade. A comprehensive final examination will comprise the other 25%. There will be at least one question on each test that requires a written explanation of a concept. Evaluation of the answer to this question will be based on mathematical content, spelling, grammar, and sentence construction.
3. Cheating and plagiarism will not be tolerated. If it is established that a violation has occurred, the instructor may determine the penalty, or he/she may report the offense to the department chair and dean of the school. The usual penalty involves a grade of zero on the test, examination, or paper in question.

CLASS ATTENDANCE  
1. Prompt and regular attendance is necessary for success in this course. In order to receive credit in this course, a student must attend a minimum of 75% of the class meetings. Classes meeting twice a week will be allowed a total of 7 absences, excused and unexcused combined. If you exceed the allowable number of absences, a grade of ”F” will be assigned as the final grade in this course.
2. If a student is tardy for class, it is the student’s responsibility to request that the faculty member change the recorded absence to a tardy. This must be done on the day the tardy occurs. A maximum of 3 tardies will be allowed. Any additional tardies will be recorded as unexcused absences.
AMERICANS WITH DISABILITIES ACT
Delta State University adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, contact Dr. Richard Houston in the Office of Disability Services at 846-4690.

CLASSROOM POLICIES AND MAKEUP TESTS
1. Do not use tobacco or eat in the classroom, and NO CELL PHONES OR BEEPERS.
2. Do come to class on time and be prepared to begin class at the scheduled time. Do not ask to leave class early. Schedule all appointments at times that do not conflict with class time.
3. Come to my office for help during scheduled office hours. No appointment is necessary. It is extremely important that you understand the material from each class prior to the next class. If your class and/or work schedule conflicts with the office hours that I offer, feel free to make an appointment for a time not listed. Scheduled office hours are:

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4. Quizzes will be given and homework may be collected periodically, announced or unannounced, throughout the semester. Even if you miss a class, you are expected to have all of your assignments up-to-date when you return to class. If you need the assignment, you may call my office. **If you are tardy or absent on the day that a quiz is given or homework is collected, you must present a written excuse acceptable by the university (along with the missed work, if homework) as soon as you return to class.** Failure to do so will result in a zero on the missed day's homework or quiz.

5. Scheduled tests will be announced at least one week prior to the actual test date. Make-up tests will only be given to those students presenting a written excuse, acceptable by the university. If you know ahead of time that you are going to miss a test, notify me as soon as possible before the test date. If possible, your test will be administered before the absence. If you are not able to provide advance notice, due to an emergency or illness on the day of the test, you MUST contact me on the day the test is given to make arrangements for a make-up test. This absence will still require a written excuse. All make-up work must be completed within three class days of the originally scheduled work or test. Any absence from scheduled work must be covered by a written excuse from the Vice President for Academic Affairs, the Student Health Center, or a doctor before the student is allowed to make up that work. Any exception to this rule must be approved before the missed work!

6. A statistical calculator is required for this course. Do not expect me to know how to operate your calculator without the manual. Please don't ask to borrow a calculator from me or one of your classmates on test day, since rarely do two calculators operate exactly the same. Bring your calculator to class every day.

IMPORTANT DATES
1. Students who remain in the course after **February 8, 2006**, and who then elect to drop the course will receive a grade of W if passing or F if failing the course at the time of the drop. The withdrawal process is not complete until the drop slip has been signed by all designated parties and the completed form has been turned in to the Registrar’s office.
2. No course on campus may be dropped after **April 17, 2006**.
3. The comprehensive final exam for this course is scheduled for **Thursday, May 11, 2006 at 8:00 am**. That is when it must be taken. **Please do not make travel arrangements that conflict with this date!**