COURSE TITLE: Business Calculus

CREDIT: 3 semester hours


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PREREQUISITE: MH 113 or appropriate standardized test scores

COURSE DESCRIPTION: Differentiation and integration of algebraic, exponential, and logarithmic functions and applications to business and economics. Also includes functions of several variables, partial derivatives (including applications), Lagrange Multipliers, L'Hopital's Rule, and multiple integration (including applications).

COURSE OBJECTIVES: Students should develop an understanding of differentiation and integration and demonstrate proficiency in the topics listed in the course description.

STUDENT LEARNING OUTCOMES
Students should be able to demonstrate proficiency in the topics listed in the course description.

REQUIRED MATERIALS FOR COURSE:
1. Textbook (see above)
2. Graphing Calculator (Casio 9850G+ is recommended)
3. Notebook (spiral)

CHAPTERS COVERED:
1. Functions (sections 1.1 - 1.5)
2. An Introduction to Limits (sections 2.1 - 2.5)
3. Derivatives (sections 3.1 - 3.10)
4. Additional Applications of the Derivative (sections 4.1 - 4.6)
5. Exponential and Logarithmic Functions (sections 5.1 - 5.4)
6. Integration (sections 6.1 - 6.7)
7. Techniques of Integration (sections 7.1, 7.2, 7.4, 7.5)
10. Multivariable Calculus (sections 10.1 - 10.7)

EVALUATION: There will be four regular exams worth 100 points each and a cumulative final exam worth 100 points. The final exam will account for 25% of the final grade. Any student who is dissatisfied with his/her grades during this course should discuss this with the instructor. Students are expected to do all homework assignments.

ABSENCE POLICY: Attendance is mandatory and will be taken daily. A student must attend 2/3 of all scheduled classes in order to receive credit for the course. See the 2015-2016 General Catalogue for the attendance policy. All unexcused absences from tests are counted as 0 points towards the final grade.
**ASSESSMENT DAY:** As a part of the University's plan to assess institutional effectiveness, a day is set aside each semester (except summer semester) for assessment activities. Although no day classes meet on this designated day, students are required to participate in assessment activities when they are called upon to do so.

**DISABILITY:** The University of West Alabama strives to make its accessible to qualified persons defined as disabled under section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. Students who have special needs that require accommodation are responsible for notifying instructors in each course in which they are enrolled and appropriate staff members, who in turn will refer the student to the ADA Compliance Coordinator. Following verification of the student’s status, the ADA Compliance Coordinator will work with the instructor or staff member in implementing an appropriate plan for accommodation of the student’s needs. Support documentation of special needs from a physician or other qualified professional will be required if deemed necessary. For additional information, students should contact the Student Success Center, Foust Hall Room 7, (205) 652-3651 or the Office of Student Life, Webb Hall, Room 311 (205) 652-3581.

**CONTENT/SCHEDULE CHANGE:** The instructional schedule reflects expected class progress in course subject matter and is considered tentative. The schedule is subject to change in content and scope at the instructor’s discretion. The instructor will make corrections as needed and will announce changes in class.

**HONESTY/INTEGRITY:** The UWA Academic Dishonesty Policy stated in the General Catalogue and the student handbook will be followed in this course.

**HEALTH EMERGENCY CONTINGENCY PLAN:**
In the event that the instructor is unable to attend class due to illness related or unrelated to an epidemic or pandemic, the following plan of action will be employed: Arrangements will be made by either the instructor or the department chair for alternate faculty to teach the course for a period of up to the equivalent of two weeks of class. If, at that time, the instructor is still unable to attend the regularly scheduled class meetings, then the instructor has the following options:

1. Have alternate faculty continue to teach the course.
2. Place all lectures and homework assignments online for distribution to students.
   Test dates will be announced and proctored by an alternate faculty member.

If a student is unable to attend class due to illness related or unrelated to an epidemic or pandemic, it is the student’s responsibility to notify the instructor. The instructor and student will, at that time, agree on a course of action to take that is suitable to both.

**ANY PERSON WHO IS IN A CONTAGIOUS STATE IS ASKED NOT TO ATTEND CLASS.**