1 Course Description:

This is the first of a three-course sequence in calculus. Topics include limits, applications of derivatives to problems in geometry and the sciences, and problems which lead to antiderivatives.

2 Learning Outcomes:

1. The student will be able to compute limits.

2. To be able to compute derivatives of polynomial, rational, exponential, logarithmic, and trigonometric functions.

3. To be able to apply calculus to related rate, maximum-minimum, and curve sketching problems.

4. To understand the definition of the indefinite and definite integral.

5. To understand and be able to apply the Fundamental Theorem of Calculus.

6. To be able to compute definite integrals using the techniques of integration by inspection and integration by substitution.

3 Evaluation

Quizzes (Ten quizzes, each worth 10 points): There is a quiz in almost every week if no test. About 20 minutes each.

Tests (Three tests, each worth 100 points): The test dates are February 3 (Test 1); March 2 (Test 2); April 6 (Test 3).

Final Exam (150 points): The final exam is comprehensive and cumulative. The final exam date is Monday, April 25, 2:00-4:30 pm.
Grades: Grades will be based on the following percentages.

90-100: A  80-89: B  70-79: C  60-69: D  0-59: F

4 Policies

Attendance:

You are required to attend all classes. If you miss a class, you are responsible for getting all information and materials that you missed.

Equipment:

A graphing calculator is allowed for this course, but the TI-89 is NOT allowed. Any cell phone is NOT allowed to use in class.

Homework:

Homework will be assigned for every section. Although it will not be collected and graded, you are strongly encouraged to do homework in order to understand the materials, and to prepare for quizzes and exams.

Make-ups:

Make-up will be granted only for excused absences (scheduled University-approved activities such as field trips, debate trips, choir trips, and athletic contests, or verifiable medical doctor’s excuse). In that case, the student is required to contact the instructor in advance to reschedule the make-up. If that is impossible, the student must contact the instructor the same day of the test by email or phone to let the instructor know. Failure to do so will result in a zero score. All students are required to take the final exam at the scheduled time and no make-up for final exam.

Common university policies:

Other course policies, including information regarding students with disabilities and the UWG Honor Code can be found at http://www.westga.edu/assetsDept/vpas/Common_Language_for_Course_Syllabi.pdf. You should read this at the beginning of each semester.

5 Important Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>January 11</td>
<td>First day of class</td>
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<tr>
<td>January 18</td>
<td>MLK Day (no classes)</td>
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<tr>
<td>March 3</td>
<td>Last day to withdraw with a grade of W</td>
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<tr>
<td>March 14-18</td>
<td>Spring Break (no classes)</td>
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<tr>
<td>April 25, 2:00-4:30 pm</td>
<td>Final Exam</td>
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The instructor retains the right to modify this syllabus to better serve the course objectives.