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 (about 10 quizzes, totally 20%): There is a quiz in almost every week if no test. About 20 minutes each.

Tests (3 tests, each worth 19%): The test dates are to be determined.

Final Exam (23%): The final exam is comprehensive and cumulative.

Grades: Grades will be based on the following percentages.

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
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<tr>
<td>60-69</td>
<td>D</td>
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<tr>
<td>0-59</td>
<td>F</td>
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4 Policies

Attendance: You are required to attend every class. If a class is missed, you are responsible for all materials and assignments.

Equipment: A graphing calculator is allowed for this course (such as TI-83 and 84, etc), but the TI-89 is NOT allowed. Any cell phone is NOT allowed to use in class. Please silence your cell phone during the 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 tests will be granted only for excused absences. Official documents are needed. The student is required to contact the instructor in advance to schedule the make-up, or inform the instructor as soon as possible on the test date. Any make-up test must be arranged within a week from the original date. No make-up for quizzes and the final exam. Up to two missing (or lowest) quizzes can be dropped.

University Policies and Academic Support: For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support, Online Courses and Campus Carry, etc, please review the Common Language for Course Syllabi: [https://www.westga.edu/UWGSyllabusPolicies/](https://www.westga.edu/UWGSyllabusPolicies/). You should read this at the beginning of each semester.

5 Other on campus resources

[Math Tutoring Center:](#) Located in Boyd 205, MTC has a number of computers and some math tutors who can help you in studying math courses. Click [MTC](#) for more information.

6 Important Dates

- January 21: MLK Day (no classes)
- February 27: Last day to withdraw with a grade of W
- March 18–23: Spring Break (no classes)
- May 2, 8:00–10:00am: Final Exam

The instructor retains the right to modify this syllabus to better serve the course objectives.