1 Course Description:

This course will provide a survey of the differential and integral calculus of polynomial, rational, exponential, and logarithmic functions with an emphasis on applications to problems from business, economics and life sciences.

2 Learning Outcomes:

Upon successful completion of the course, you will have an understanding of . . .

1. The student will be able to compute limits.

2. The student will be able to differentiate polynomial, rational, exponential, and logarithmic functions.

3. The student will be able to apply differential calculus to problems from business, economics, and life science.

4. The student will be able to integrate polynomial, rational, exponential, and logarithmic functions and to apply the Fundamental Theorem of Calculus.

5. The student will be able to apply integral calculus to problems from business, economics, and life science.

6. The student will understand the basic techniques of integration.
3 Evaluation

**Homework (totally 30%)**: Online in MyMathLab, with unlimited attempts for each homework assignment.

**Three Exams (totally 45%)**: Online in MyMathLab, with only one attempt for each exam.

**Final Exam (25%)**: Cumulative, online in MyMathLab, with only one attempt.

**Grades**: Grades will be based on the following percentages.

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>0-59</td>
<td>F</td>
</tr>
</tbody>
</table>

4 Policies

**Assignments**: All assignments (including homework and exams) must be completed by the deadlines. Please follow the calendar in the MyMathLab.

**Communication**: Since this is an online course, my main communication to you is via email. You can also come to my office during the office hours to meet me. For other time to meet me, you need to send me an email to set up an appointment.

**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/. 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

- August 15: classes begin
- September 3: Labor Day Holiday (no classes)
- October 4-5: Fall Break (no classes)
- October 8: Last day to withdraw with a grade of W
- November 19-23: Thanksgiving Holiday (no classes)
- December 7: Last day of class

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