Instructor: Dr. David Leach  
Location: 305 Boyd  
Time: MWF 12:00-12:50; R 11:00-11:50  
Office: 317 Boyd  
Office Hours: TBA  
Website: http://www.westga.edu/~cleach  
email: cleach@westga.edu  
Phone: 678-839-4127  
Prerequisite: A grade of C or better in Calculus I or an appropriate score on an advanced placement test.

Learning Outcomes: Upon completing the course, you will be able to
◦ Use integration methods including parts, partial fractions, trigonometric substitution (L1, L9)  
◦ Use washers and shells to compute volume and surface areas of solids of revolution (L1, L9)  
◦ Use Simpson’s rule to approximate definite integrals (L8)  
◦ Evaluate improper integrals (L1)  
◦ Use integrals to solve nonuniform work and hydrostatic force problems (L8, L9)  
◦ Convert and sketch parametric and polar curves. (L1)  
◦ Determine areas and arc lengths determined by parametric and polar curves.(L1)  
◦ Classify sequences and determine their limits. (L1, L2)  
◦ Determine the convergence or divergence of series (L1, L7)  
◦ Construct the power series representation of a function (L7)

Grading and Evaluation: Grading is based on tests, quizzes, and a comprehensive final exam. There will be four tests. Test 4 will be given in two parts. These two parts, added together, will be worth the same as the other three tests. Tentative dates for the tests are given below. These dates as well as the material covered may change slightly depending on the pace at which we cover the material.

<table>
<thead>
<tr>
<th>Test 1</th>
<th>Chapter 6</th>
<th>Sept 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 2</td>
<td>Chapter 7</td>
<td>Sept 29</td>
</tr>
<tr>
<td>Test 3</td>
<td>Chapters 8 &amp; 10</td>
<td>Oct 27</td>
</tr>
<tr>
<td>Test 4</td>
<td>Chapter 11</td>
<td>Nov 12 &amp; Dec 3</td>
</tr>
</tbody>
</table>

Quizzes and take-home quizzes will be given occasionally. I plan to announce most in-class quizzes at least a day in advance, but I’m not ruling out the possibility of pop quizzes. The lowest quiz score will be dropped.

Your average will be computed as $0.6 \times \text{(Test Average)} + 0.15 \times \text{(Quiz Percentage)} + 0.25 \times \text{(Final Exam)}$, and rounding to the nearest whole number.

A letter grade will be assigned according to
90-100: A  
80-89: B  
70-79: C  
60-69: D  
0-59: F

Final Exam: The final exam will be on Wednesday December 10, 11am-1 pm. It will be comprehensive.

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

Make-ups: In order to take a make-up test or quiz, you must have a valid, documented reason for missing it, and (except in extreme situations) take the make-up within two weekdays of returning to class.
**Academic Dishonesty:** Any student caught cheating will receive a failing grade and may be reported to the Office of Student Affairs. Cheating includes using unauthorized materials during a test, giving or receiving information during a test (including copying), giving information about a test to a student who will take it at a later time, and receiving information about a test before you take it.

**Calculators:** We will use a graphing calculator in this class. I recommend the TI-83 series. The TI-84, 85 and 86 series are also okay. TI-89s, TI-92s, and other symbolic manipulators will not be allowed.

**Bonus & Extra Credit:** Throughout the semester, I might assign a few bonus problems to the entire class. No individual extra credit will be assigned for any reason.

**Important Dates:**

- **Last Day to Drop:** August 21
- **Labor Day:** September 1
- **Last Day to Withdraw:** October 8
- **Fall Break:** October 9-10
- **Thanksgiving Holidays:** November 26-29
- **Final Exam:** Wednesday December 10, 11:00-1:00