Math 2644 Calculus II Fall 2017

Instructor: Dr. David Leach
Time: MTWF 11:00-11:50
Office Hours: See CourseDen
Phone: 678-839-4127
Location: 302 Boyd
Office: 317 Boyd
e-mail: cleach@westga.edu


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:
There will be four in-class tests worth 100 points each. Test 4 will be given in two parts. There will be
several assignments. Your assignments will be averaged into a score out of 100 points. The final exam will
be comprehensive and will be worth 150 points. Your course average will be computed by adding your three
best tests, your assignment average, and your final exam score; dividing by 5.5; and rounding to the nearest
whole number. Letter grades are assigned as follows:

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

Tentative dates and topics for the tests are given here. These may change depending on the pace at which
we cover the material.

<table>
<thead>
<tr>
<th>Test</th>
<th>Chapter</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>Chapter 6</td>
<td>Tue Aug 29</td>
</tr>
<tr>
<td>Test 2</td>
<td>Chapter 7</td>
<td>Mon Sep 25</td>
</tr>
<tr>
<td>Test 3</td>
<td>Chapters 8 &amp; 10</td>
<td>Wed Oct 18</td>
</tr>
<tr>
<td>Test 4 part 1</td>
<td>Chapter 11</td>
<td>Wed Nov 1</td>
</tr>
<tr>
<td>Test 4 part 2</td>
<td>Chapter 11</td>
<td>Fri Nov 17</td>
</tr>
</tbody>
</table>

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 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.

Calculators: You’ll need a scientific or graphing calculator for the homework and tests. Calculators with
a built-in computer algebra system (including TI-89s, TI-92s, and the n-Spire CAS) won’t be allowed on
tests. We may also use spreadsheets occasionally in class and on assignments.

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.

Other Course Policies: Other course policies, including information regarding students with dis-
bilities and the UWG Honor Code can be found at https://www.westga.edu/academics/assets/docs/
Common_Language_for_Course_Syllabi.pdf You should read this at the beginning of each semester.

Important Dates:
- Labor Day: Sep 4
- Last Day to Withdraw: Sep 29
- Fall Break: Oct 5-6
- Thanksgiving: Nov 20-24
- Final Exam: Fri Dec 8 11:00-1:00