Math 2644 Calculus II Spring 2019

Instructor:	Dr. David Leach	**Office:**	317 Boyd
Time:	MW 9:30-10:45	**Location:**	302 Pafford
	F 9:55-10:45		305 Boyd
Office Hours:	See CourseDen	**email:**	cleach@westga.edu
Phone:	678-839-4127	**Textbook:**	*Calculus, Early Transcendentals Single Variable*, Vol 2, 7th Edition, by Stewart.

Learning Outcomes: Upon completing the course, you will be able to
- Use integration to find the area between two curves (L1, L9)
- Use integration methods including parts, partial fractions, trigonometric substitution (L1, L9)
- Use washers and shells to compute volume and surface ares 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:

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

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

Test 1	Chapter 6	Mon Jan 28
Test 2	Chapter 7	Fri Feb 22
Test 3	Chapters 8 & 10	Wed Mar 27
Test 4 part 1	Chapter 11	Wed Apr 10
Test 4 part 2	Chapter 11	Wed Apr 24

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-89, TI-92, and n-Spire CAS) won't be allowed on tests. We may also use spreadsheets occasionally in class and on assignments.

Bonus & Extra Credit: 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 disabilities 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:

Last Day to Withdraw: Feb 27
Spring Break: Mar 18-22
Final Exam: Wed May 1, 8-10am