Schedule: When and Where: SHEC 2214 MWF 10:10 AM-11AM, Tu 12:30PM-1:20PM.
Instructor: Prof. Scott Carter, ILB 308, 460-6264, x66756, e-mail: carter@southalabama.edu
You may address me as Dr. Carter, Professor Carter, Professor Zap, or DC.
Relevant URLs: The urls that are listed below correspond respectively to (1) Course materials, (2) my youtube channel, (3) the official syllabus for the department (4) The University’s final exam schedule, (5) The University’s academic conduct and disruption policy. Keep these handy.
http://www.southalabama.edu/mathstat/personal_pages/carter/classes.html
http://www.youtube.com/ProfessorElvisZap
http://www.southalabama.edu/mathstat/info/schedules/coursesyllabi/ma100level/MA126%20syllabus.pdf
http://www.southalabama.edu/registrar/dates.htm#final
http://www.southalabama.edu/lowdown/

My webpage contains old exams, old quizzes, and other useful stuff.
The dangers of social media: I will create a facebook page for this course. You should register for this page and use the page to get help from your peers and from me. I'll post contemporaneous videos that either enhance, duplicate, or supplement the existing lecture. If several of you come by my office hours for specific questions, we can film the videos (with you off camera), and post them for everyone. They will always be posted at youtube.
Office Hours: MF 11AM-12:01PM, TuTu 2:30-4PM or by appointment.
Grading Policies: All points earned are positive points. The total number of possible points will depend on the number of points on quizzes that are given, and the number of points on the tests.
If you are absent or late to a quiz, then you do not earn points.
Tests: There will be 2 tests: Friday Sept. 19 and Monday Nov 3. Each counts at least 100 points.
Make-up exams will be an extreme rarity and subject to my discretion. The final exam will be held, 10:30AM - 12:30PM, Monday December 8, 2014 and counts at least 150 points.
Scoring: expect between 450 to 600 points per the semester. Attentive students who do their homework, who study before attending class, and who review carefully before the exam or the final will earn close to the maximum number of points available. Students who do not attend class, do not earn points on quizzes. Such students lose this opportunity for credit. You will always be informed of your cumulative points. You should pretend that your grade is on a standard, 60%, 70%, 80%, 90% scale. Since I am aware of personal contingencies, I will grade as if the cut-off is lower than the highest possible score. During the review of the first day handout, I will illustrate how I determine cut-off scores between each grade.
Absences: Do not miss class. Arrive to class on time. Virtually every class day will start with a 5 minute quiz. You gain experience and points from working quizzes. Come to class prepared: each night read the previous section and the current section. Attempt all homework problems.
Class pacing. Immediately after a quiz is turned in, I’ll show you how to work it. I’ll also post written solutions to quizzes on my webpage. The next event is a review of homework. Please don’t make me ask more than once if there are any questions; otherwise we’ll waste class time. If there
are no immediate questions, I’ll work selected problems from the previous assignment. After I feel that I have adequately answered homework problems, we’ll go onto new material. *I will leave time for new material in each class.*

**Learning Objectives for the Course:** Upon successful completion of the course a student will be able to:

1. define, compute, and interpret a definite integral;
2. state, explain, and apply the fundamental theorem of calculus;
3. perform techniques of integration, including u-substitution, integration by parts, decomposition into partial fractions, and trigonometric substitution;
4. recognize and compute improper integrals;
5. apply integrals to concepts such as area, volume, arc length, mass, work, and energy;
6. manipulate infinite sequences and series;
7. apply tests of convergence and divergence;
8. find the interval of convergence for power series, manipulate power series within their intervals of convergence, and represent analytic functions as a Taylor series;
9. describe plane curves in terms of parametric equations and polar coordinates.

**Other Remarks:**

**Calculators:** You may use a calculator for your homework, but there are only a few quizzes for which the calculator is allowed. Sometimes it is an essential tool, more often it is a cumbersome burden. The correct use of a calculator is as a check to your arithmetic or your rough sketch.

**Blue books:** On September 2, 2014, supply me with 3 large blank blue books. Do not write your name on the blue books! These will be used for tests and the final.

**Special Students:** If you have a specific disability that qualifies you for academic accommodations, please notify the instructor/professor and provide certification from Special Student Services. (OSSS is located in Room 270 of the Student Center (460-7212).

**Counseling and Testing Services** Counseling and Testing Services provides a variety of free and confidential services for students. For further information regarding this resource go to www.southalabama.edu/counseling or call the office at 460-7051.

**Departmental tutoring:** Free tutoring is available for elementary courses (ILB 235) from the Department of Mathematics and Statistics. Please check the bulletin board outside ILB 325 for details.

**Disclaimer:** The requirements and policies may be modified as circumstances dictate. Such changes will be provided to the students in class and in writing.

**Dropping** The final drop date is Friday, October 24, 2014 4:59 PM. Please speak to me if you are getting behind. Also talk to me before making a final decision to drop.

**Homework Schedule:** A homework schedule for the course is attached. An e-copy will be posted at my webpage.