Schedule: When and Where: Section 101 (CRN 10187) ILB 350 Tu 9:30-10:20AM, MWF 10:10-11:00AM  
Section 103 (CRN 10916) ILB 350 Tu 2:00-2:50PM, MWF 1:25-2:15PM  
Note the staggered times.  
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) my course web page, (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. I do not use Sakai; even so, when in Korea, I drink Soju. Don’t ask about Sakai!  

http://www.southalabama.edu/mathstat/personal_pages/carter/classes.html  
http://www.youtube.com/ProfessorElvisZap  
http://www.southalabama.edu/colleges/artsandsci/mathstat/syllabi/ma227.html  
http://www.southalabama.edu/departments/registrar/finalexamschedule.html  
http://www.southalabama.edu/lowdown/  

My webpage contains old exams, old quizzes, and other useful stuff. I will be posting photos of the blackboards on linked pages on a class-by-class basis. Reading blackboards is not an adequate way to learn. Mathematical communication involves at least one temporal and three spacial dimensions.  

Do not miss class.  
Office Hours: MWF 9:30-10AM, MTuWF 11-11:45AM, MTuWThF 2:30-3:30 PM except on days on which I travel. Please feel free to make an appointment for another time if needed. If I am in the office and not involved in something with an urgent deadline, I am happy to talk with you about mathematics. If I am in the office, it is early afternoon, and the door is closed, then I am having a cat nap. Don’t knock!  
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. 23, 2016 and Friday, November 11, 2016. Each counts at least 100 points. Make-up exams will be an extreme rarity and subject to my discretion.  
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. 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.

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

1. Apply the algebra and geometry of vectors in 2- and 3-dimensional space;
2. Analyze vector fields;
3. Interpret the calculus of a single variable from a vector point of view;
4. Apply the differential calculus of curves in 3-dimensional space and the calculus of path integrals;
5. Check whether a vector field is conservative, and in the case it is, find a potential function;
6. State and use the fundamental theorem of line integrals;
7. Analyze elementary functions of several variables, their graphs, and the standard quadratic surfaces;
8. Compute and interpret partial and directional derivatives of multivariable functions and use these to compute local minima, local maxima, and tangent plane approximations;
9. Compute double and triple integrals in various coordinate systems;
10. State and use Greens theorem;
11. Compute and interpret line and surface integrals;
12. State and use Stokes theorem and the divergence theorem.

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 or before September 12, supply me with 3 large blank blue books. Do not write you 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 October 21, 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. This schedule is, most likely, only an approximation. I know how to adjust, and you should too.

Things to avoid:

1. car trouble,
2. arriving to class late,
3. using your cell phone in class,
4. missing class,
5. algebraic mistakes.

Things to do:

1. arrive to class on time,
2. have pencils and paper available,
3. take notes,
4. come to all classes,
5. ask questions that indicate that you have attempted the assignment,
6. rework homework after it is reviewed,
7. get plenty of sleep,
8. work problems more than once,
9. work additional problems
10. check the classes web page for handouts, etc.