Schedule: When and Where: MTuWThF 9:10-10:05 ILB 0345
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/colleges/artsandsci/mathstat/syllabi/ma237.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. Note that the departmental syllabus is not up to date with respect to the text book and coverage.

Videos and photos: There is no substitute for attending class and taking notes. However, I plan to post more videos on youtube for this course. In order to do so, I need your help. If two or more students visit my office hours, we can video record me working selected problems from the homework or short topic lectures. I will also try to take phone shots of the blackboards and post these to my classes web site.

Communication in mathematics involves at least three spacial and one temporal dimension. Other dimensional aspect are variation of tone, gestures, and the order in which items are written on the board. Reading written mathematics is difficult, and it is only supplemented by trying to reconstructing the arguments in one’s own mind. Do not skip class because the notes are on the web site.

Office Hours: MF 10AM-11:30AM. I am also in the office in the afternoon after my lunch (and quick nap). In the early afternoon (2-4), I plan to be doing my own math, but I am happy to help you with yours. 4:30 PM is when water-polo usually starts. Math questions can be asked at the pool between games.

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: Monday June 22, 2015 and Monday, July 13, 2015. 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, 8:00AM-109AM Wednesday July 22, 2105 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. Towards the end of the course, I will let you know what your expected grade is. If your score on the final is in the interval \((105 \leq x \leq 130)\) and your expected grade is a \(B\) or \(C\), then your grade will coincide with the expected grade. To increase your grade, or to earn an \(A\), your score on the final must be in the interval \([130, \infty)\). Note there is indeed an upper bound to the final exam score, but I don’t know it in advance.

**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. I take your absences and tardiness personally.

**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:**

- You will have developed good conceptual and computational understandings of linear algebra.
- You will be expected to be able to state definitions precisely, prove some small theorems, follow the proofs of bigger theorems, and apply these results in a variety of real world situations.
- You will be able to row reduce a matrix by hand, and describe the steps used in row reduction as elementary row operations.
- You will be able to identify row space, column space, null space, domains and ranges associated with matrices and with linear maps.
- You will be able to perform matrix arithmetic (addition, multiplication, multiplication by scalars) and be able to interpret these operations in terms of linear transformations, changing bases, or as row or column operations.
- You will be able to identify eigenvalues and eigenvectors of self-adjoint matrices.

**Other Remarks:**

**Blue books:** Before June 8, 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. Don’t make me buy you blue books.

**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 Tuesday June 30, 2015 11:59 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.

**Other Documents:** There are directories of my past quizzes, tests, homeworks, and study guides on my homepage. If you can’t figure out what kind of questions or the length of my tests, it’s your own fault. Bear in mind though that each semester is different. Each group of students is different, and I will do my best to teach you the material.