Carter Mathematics 125-103, -107, & -110 Fall 2013

Schedule

<table>
<thead>
<tr>
<th>Course</th>
<th>CRN</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>125-103</td>
<td>10240</td>
<td>MWF 12:20PM–1:30PM</td>
<td>ILB 465</td>
</tr>
<tr>
<td>125-107</td>
<td>13371</td>
<td>MWF 1:45PM–2:55PM</td>
<td>ILB 465</td>
</tr>
<tr>
<td>125-110</td>
<td>15269</td>
<td>MWF 12:20PM - 1:30PM</td>
<td>ILB 465</td>
</tr>
</tbody>
</table>


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. Do not refer to me as, “Ah hey.” Until (and shortly after) you are certain that I know your name, introduce yourself to me. Try, “Excuse me, DC, my name is __________, I have a question about ...”

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/courssesyllabi/ma100level/MA125-syllabus.pdf
http://www.southalabama.edu/Registrar/dates.htm
http://www.southalabama.edu/lowdown/policies.shtml

Course Materials Be aware that among the postings are this syllabus and homework schedule, old exams, old sample tests, and other helpful material. Check it out. Also, on this page I have archived the materials from previous runnings of the course. If you need sample tests, sample quizzes, or additional assignments, that is where you will find them.

Office Hours: MTuWThF 10-11:30 or by appointment. You are encouraged to come to office hours to ask about the course and to get acquainted.

Youtube: Lectures on new material will sometimes be posted at the youtube channel in the Calculus 1 play list. Some material is already there. Supplementary material for classes on August 21, 2013 and August 23, 2013 will be there.

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. As I write this, I am planning on 40 quizzes each of which is worth between 3 and 12 points. You can expect that somewhere between 100 and 200 of your possible earned points will be available on quizzes.

The dangers of social media: I am strongly considering establishing a page on google+ or facebook in which I will post contemporaneous videos and links to short written works. Doing so, would mean that even though you may be actively avoiding homework issues, you’ll receive reminders in your newsfeed.

Tests: There will be 2 tests: Friday Sept. 20 and Friday Nov. 1. Each counts at least 100 points.

Make-up exams will be an extreme rarity and subject to my discretion.
Final Exam: The final will count at least 150 points. According to my reading, the final is 1PM-3PM Monday Dec. 9, 2013 for the class that meets at 12:20PM, and 1PM-3PM Wednesday Dec. 11, 2013 for the sections that meet at 1:45PM.

Scoring: The arithmetically astute student will observe that there will be about 560 points available to be earned. 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 that number of points. 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 560. During the review of the first day handout, I will illustrate how I determine cut-off scores between each grade.

Absences: Absent students lose privileges. The syllabus is subject to change and clarification. Each day there is a quiz. If you miss a quiz, you do not earn points. If you do not understand an explanation on Monday, it may be the case that clarification is given on Wednesday.

Learning objectives for the Course: Upon successful completion of the course a student will:
(1) compute limits of functions graphically, numerically, and algebraically; (2) verify using the \( \varepsilon, \delta \)-definition that a given real number is the limit of a function; (3) compute and interpret the derivative as a rate of change, as a slope, as a linear approximation, and as a tool for optimization problems; (4) analyze algebraic and transcendental functions with regard to their critical behavior, regions of increase and decrease, concavity properties and asymptotic behavior, and sketch a graph based on these observations; (5) compute simple anti-derivatives; (6) estimate an area under a curve and a definite integral using Riemann sums; (7) interpret a definite integral as a signed area; (8) state and use the fundamental theorem of calculus; (9) state and prove results about limits, derivatives, and mean values.

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 Sept. 6, supply me with 3 large blank blue books. Do not write your name on the blue books! Do not purchase your blue books at Ander’s bookstore; if you do, I will ask you to return them. 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).

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 25 at 4:59. Please speak to me if you are getting behind. Also talk to me before making a final decision to drop.