

Mathematics 115-101, and 115L

When and Where:

MWF 11:15AM-12:05PM ILB 140.

115L-101 Tue ILB 405 12:30 -2:00 PM

115L-102 Thur ILB 405 12:30 -2:00 PM

PLEASE GO TO THE LAB FOR WHICH YOU ARE REGISTERED.

Text: M.L. Bittinger, J.A. Beecher, D. Ellenbogen, and J.A. Penna, *Algebra and Trigonometry, Graphs and Models* 2nd Edition, Addison Wesley Longman, Inc (Boston 2001).

Instructor: Prof. Scott Carter, ILB 303, 460-6264, x66756, e-mail: carter@jaguar1.usouthal.edu

Office Hours: Tu-Th 10:00AM-12:00PM OR BY APPOINTMENT. You are encouraged to come to office hours to ask about the course and to get acquainted.

Supplemental Instructor Diana Nguyen, hours to be announced.

Teaching Assistant Will Chappelle hours to be announced.

Grading Policies: There are two components to your grade.

Necessary Criteria YOU NEED A MyMathLab COURSE ID FOR THIS CLASS. It is CARTER93295.

It is necessary to achieve a final average of 80% or above among your highest grades on all homework on MyMathLab. Moreover, you must pass each assignment with 65% or above. Each homework assignment has a deadline associated to it. These dates will be posted on the course calendar, they are 2AM on the Monday following the assignment's beginning date. Homework must be complete before the due date!

Sufficient Criteria

Lab Quizzes Each week there will be a lab quiz. In order to take this quiz, you must be present in the lab at the time of the quiz. Time stamps appear on the quizzes, so I will know if you have not taken the quiz at the assigned time. Also, I only keep the passwords for the quizzes active during the lab time. Your 10 best lab quizzes will be totaled for 100 points of your quiz. Some quizzes are paper quizzes. Most are MyMathLab quizzes. The problems on the quizzes are, for the most part, found among the homework problems. You will have at most 3 opportunities to take each of the MyMathLab quizzes. I only count the highest of these attempts.

Tests: There will be 3 Monday tests: February 9, March 8, April 19 Each counts 100 points, but your lowest grade of these 3 will be dropped. As a result there will be **no make up exams or quizzes.**

Final Exam The final will be held 10:30AM-12:30PM May 5. Check the final exam schedule to confirm this! The final counts 150 points.

Scoring: A total of 450 points will be counted towards your grade. [2 best tests (200 points) + 10 best quizzes (100 points) + 150 point final] Any grade above 405 will earn an *A*, any grade above 360 will earn at least a *B*, etc. I may adjust the cut offs for *Bs*, *Cs* and *Ds* depending on overall performance, but don't plan on it. There will be no make-up quizzes or tests; instead any quiz or test that you miss will be used as your drop grade.

HOWEVER, IN ORDER TO EARN AT LEAST A C YOU MUST DO THE MyMathLab HOMEWORK.

Absences: Habitually absent students lose privileges: *E.g.* office hours, sensitive answers to in class questions, and grading appeals. The syllabus is subject to change and clarification. Therefore, class attendance is important.

Goals for the Course: Successful student who have completed Math 115 will have a working knowledge of the definition of a function and an intimacy with examples;

1. linear

- (a) point -slope form,
- (b) slope intercept form,
- (c) intercept-intercept form,
- (d) general form

2. quadratic

- (a) completing the square,
- (b) finding roots and intercepts for quadratics (parabolas and circles),

3. polynomial and rational

- (a) factoring
- (b) roots and asymptotes
- (c) inequalities and sign charts

4. logarithmic and exponential

- (a) the analogy between multiplication and addition
- (b) the laws of exponents and logarithms
- (c) graphs
- (d) applications

5. trigonometric

- (a) defined via triangles,
- (b) defined via circles,
- (c) radian and degree measurements,
- (d) graphs of trigonometric functions,
- (e) Applications of trig functions,
- (f) Proving trig identities,
- (g) Graphs of inverse trig functions,
- (h) Trigonometric representations of complex numbers.

Other Remarks:

1. **Calculators:** A graphics calculator is recommended for the course. The TI-89 is the recommended brand and model.
2. **Blue books** On or before January 19, supply me with 4 large blank blue books. Do not write your name on the blue books! These will be used for tests and the final.
3. **Special Students** If you have a specific disability that qualifies you for academic accommodations, please notify me and provide certification from the Office of Special Student Services. This office is directed by Ms. Bernita Pulmas and is located in the Student Center, Room 270, Phone 460-7212.
4. **Prerequisites** An appropriate Math ACT score, placement test grade, or SAT score.
5. **Placement exam** AS A COURTESY TO YOURSELF AND TO FUTURE STUDENTS, please before January 20th go to <http://www.southalabama.edu/mathplacement> and take the mathematics placement exam.
6. **Departmental tutoring** Free tutoring is available for elementary course from the Department of Mathematics and Statistics. Please check the bulletin board outside ILB 325 for details.
7. **Disclaimer** I have the right and the duty to modify the requirements of the course as circumstances dictate. Such changes will be provided to the students in class and in writing. This is another reason that attendance is mandatory.
8. **Dropping** The final drop date is April 9. Please speak to me if you are getting behind. Also talk to me before making a final decision to drop: It is easier to pass the course, than you might think.

Course Outline

week of	OnLine Homework
Jan 12	01 Homework 1.1-1.2
Jan 19	02 Homework 1.2-1.5
Jan 26	03 Homework 2.1-2.3
Feb 2	04 Homework 2.4-2.6
Feb 9 (TEST DAY)	05 Homework 3.1-3.4
Feb 16	06 Homework 4.1-4.2
Feb 23	07 Homework 4.2-4.3
Mar 1	08 Homework 4.4-4.6
Mar 8 (TEST DAY)	09 Homework 5.3-5.5
Mar 22	10 Homework 5.5-5.6
Mar 29	11 Homework 6.1-6.3
Apr 5	12 Homework 6.3-6.5
Apr 12	13 Homework 7.1-7.2
Apr 19 (TEST DAY)	14 Homework 7.3