

Mathematics 115-101

When and Where:

MWF 11:15AM –12:05 PM, ILB 360; Thursday 11:15AM-12:05PM ILB 410. *Note the change of place on Thursday!*

Text: Faires, J. Douglas and DeFranza, James *Precalculus*, Fourth Edition (2007, Belmont, CA), Thomson Brooks-Cole Publishing, ISBN 0-495-01269.

Instructor: Prof. Scott Carter, ILB 304, 460-6264, x66756, e-mail: carter@jaguar1.usouthal.edu

Office Hours: Tuesday 10:00AM-12:00PM, Thursday 10AM -11:05 AM, or by appointment. You are encouraged to come to office hours to ask about the course and to get acquainted.

Grading Policies: All points earned are positive points. The total number of possible points will depend on the number of quizzes that are given, and the number of points on the tests.

There will be written quizzes that cover the homework assignments. These will be held every Monday and Thursday and on un-announced days as I deem necessary. Quiz points will range from 3 to 10 points each. Anticipate that the total possible quiz grade will be in the range of 100 to 150 points.

Tests: There will be 2 tests, Friday February 20 and Thursday April 9. Each counts at least 100 points. According to my reading of

<http://www.southalabama.edu/registrar/dates.htm>

The final is scheduled from 10:30 AM – 12:30 PM on Wednesday May 6. The final counts at least 150 points.

If you have a *good excuse* for not making it to one of the exams, then your final exam will count as if it were 250 points. However, lenience in grading policy will only be granted if you ask, and the final determination, if it is warranted, is up to me. As a result there will be **no make up exams or quizzes**.

Scoring: There will be more than 450 points available. If you miss a quiz, you do not earn points. I will keep you informed on the total number of points that possibly can be earned as these points are earned. Thus your quiz papers will contain a score for the quiz and a cumulative score expressed as an unreduced fraction.

Once the semester is over, I graph the total points earned for each student, arrange the scores from highest to lowest, and insert break lines between *As* and *Bs* at the most convenient break that is less than or equal to 90% of the possible points earned. The *A/B*-line does not move very much below 90%. The *B/C* line will be the closest break line less than or equal to 80%. The *B/C*-line may move as far down as 70%. The process continues: I look for break lines that are at or below the 60-70-80-90 marks.

You will always be able to compute your cumulative points.

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. Also there are un-announced quizzes. If you miss a day on which there is a quiz, you do not earn these points.

If you do not understand an explanation on Monday, it may be the case that clarification is given on Wednesday.

Goals for the Course: The successful student in Math 115 should be prepared for calculus with a working knowledge of certain families of functions, solving equations that contain such functions, and the geometric representations of their graphs. Specifically, students should be able to solve rational inequalities, graph lines and quadratic functions, understand the elements of polynomial functions, trigonometry from the view point of circles and triangles, exponential and logarithms, quadratic expressions in two variables, and elements of parametric curves. The observant student will notice that the narrative above essentially articulates the chapter and section titles in the book.

Other Remarks:

1. **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.
2. **Blue books** On or before January 30, 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.
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.
4. **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.
5. **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.
6. **Dropping** The final drop date is March 27 at 4:59 PM. Please speak to me if you are getting behind. Also talk to me before making a final decision to drop.

Course Outline

Date	Section	Homework
Mon Jan 12	1.1-1.2	# 1,3,5,13,15,19,23,27
Wed Jan 14	1.2	# 31,34,37,41,49,51,54,59,65,66
Thur Jan 15	1.3	# 3,6,9,12,15,17,19,22,26,30,33
Fri Jan 16	1.3	# 36,38,41,43,46,49,56,59
Wed Jan 21	1.4	# 1,2,3,4,6,7,9,12,13,21,26, 28,29,30,32,33,36,37,39,43, 44
Thur Jan 22	1.6	# 1,2,6,12,15,19,22,27,34,37,42,57,60,62,66,68
Fri Jan 23	1.7	# 1,4,9,14,16,17,19,20,23,27,31,32,34
Mon Jan 26	1.8	# 2,5,7,10,14,17,20,21,23,26
Wed Jan 28	1.8	#29,30,31,33,35,38,40
Thur Jan 29	1	p. 74
Fri Jan 30	2.2	# 1, 4,6,7,9,11,14,16,17,19,23,26,33,38
Mon Feb 2	2.3	#1,3,5,7,9,12,16,17,18,19,21
Wed Feb 4	2.4	#1,4,8,10,11,14,15,17,20,23,24,35,37
Thur Feb 5	2.5	# 1,3,4,6,7,8,11,13,15,16,19
Fri Feb 6	2.5	# 21,23,24,26,28,35,37,40
Mon Feb 9	2	p. 118
Wed Feb 10	3.2	# 1,3,4,7,10,11,12,13,16,18,23,25,31,33,47
Thur Feb 11	3.3	# 1,4,6,7,10,12,15,17,19,20,22,23,29,31,34,36,37
Fri Feb 12	3.4	# 1,3,4,8,10,11,12
Mon Feb 16	3.4	# 13,15,17,19,21,23,28,31,32
Wed Feb 17	3.4	# 36,38,42,43,46,47
Thur Feb 18	Review	Review
Fri Feb 20	TEST	TEST

Date	Section	Homework
Mon Feb 23	3.5	# 20,21,25,27,29,31
Wed Feb 25	3	p. 183
Thur Feb 26	4.2	# 6,8,10,12,14,15,20,22,26,30,31,33,37,40,41
Fri Feb 27	4.3	# 3,7,9,13,18,33,35,39,40,43,44,48,52,53
Mon Mar 2	4.4	# 1,4,5,8,11,13,19,23,26,35,41
Wed Mar 4	4.4	# 2,6,7,12,14,15,16,17
Thur Mar 5	4.5	# 4,9,12,21,23,32,35
Fri Mar 6	4.6	# 1,3,9,14,17,20,23,26,27,31,35,39,41,44,46
Mon Mar 9	handout	handout
Wed Mar 11	4.7	#1,3,4,5,7,8,11,13,15,16,19,25,26
Thur Mar 12	4.8	# 1,2,3,5,6,7,8,11,15,16,19,20
Fri Mar 13	4.8	# 23,24,27,28,31,32,45
Mon Mar 23	4.9	# 1,4,5,7,8,9,11,14,17,18,20,23,26
Wed Mar 25	4	p. 265
Thur Mar 26	5.2	#1,5,8,9,12,13,15,16,17,19
Fri Mar 27	5.2	# 21,22,25,27,31,35,37,38,46
Mon Mar 30	5.3	# 1,6,9,11,13,15,17,20,21,24,27
Wed Apr 1	5.3	# 29,31,35,42,51,56,59,62,65,69
Thur Apr 2	5.4	# 1,3,4,5,7,8,9
Fri Apr 3	5.4	# 10,12,13,15,16,18
Mon Apr 6	5	p. 306
Wed Apr 8	Review	Review
Thur Apr 9	TEST	TEST

Date	Section	Homework
Fri Apr 10	6.2	# 2,4,11,13,16,19,21,23,25,27,31,33,35,37
Mon Apr 13	6.3	# 4,6,9,12,13,15,17,18,21,24,26,28,29,34
Wed Apr 15	6.4	# 1,7,11,14,15,19,22,23,25,28
Thur Apr 16	6.5	# 1,4,8,12,14,17,21,23,25,26,27,29,31
Fri Apr 17	6.5	# 32,33,35,38,42,44,47,53,56,65,67
Mon Apr 20	6.7	#1,2,3,4,5,6,7,8,10,11,12,17,21,22,23,25
Wed Apr 22	Binomial	Binomial
Thur Apr 23	Complex	Complex
Fri Apr 24	6	p. 363
Mon Apr 27	Review	Review
Wed Apr 29	Review	Review
Thus Apr 30	Review	Review
Fri May 1	Review	Review