The University of North Carolina at Greensboro
Department of Mathematics and Statistics

College Algebra   MAT 115 WLL Sections: 02 & 03   Fall 2017 Syllabus

Time and Place: Section 03 M 9-9:50 am, **Section 04** 10-10:50 am Graham 313
Instructor: Elliott Hollifield
Office Hours: MW 12:00–1:30 in Graham 313, and by appointment
E-mail: ezhollif@uncg.edu
Final Exam Wednesday, Dec 06, 2017 8:00 - 11:00 AM

Prerequisites: None

For Whom Planned: This course is part of GEC mathematics requirement. It is a prerequisite course for MAT 120. You must receive a grade of C or better (≥ 73) in this class to be able to move on to MAT 120. *Credit cannot be earned for both this class and MAT 150.*

Catalog Description: Algebraic expressions, exponents, radicals, factoring, solving equations and inequalities, graphing, polynomial and rational functions.

Student Learning Outcomes: Upon successful completion of this course, students will be able to:

- *Identify* functions and their domains, *describe* their properties, and draw their graphs;

- *give examples* of piecewise functions;

- *compute* values of functions, *solve* algebraic equations and inequalities;

- *compare* and *contrast* one-to-one functions with non-invertible functions;

- *combine* different methods to find real and complex roots of polynomials;

- *support* and *justify* statements with mathematical arguments.

Teaching Methods and Assignments for Achieving Learning Outcomes: As a WLL course, this course is an enhanced version of an online course. Students are required to attend a 1 hour class meeting each week and spend a <u>minimum</u> of 3 hours per week in the computer lab working on online assignments. The course material will be presented through in-class problem solving, activities, and discussion, and online videos, slides, and assignments at `http://www.mymathlab.com`. Achievement of learning outcomes will be facilitated via:

- *Class meetings* The goal of the weekly class meeting is to expand students' understandings of selected course topics though problem solving, group work, and other pedagogical methods. These meetings WILL NOT cover all the material students need to know. Students are responsible for spending time independently working on course assignments, collaborating with classmates when appropriate, and seeking help when needed. Students are responsible for keeping their classwork from each class and finishing any work not completed during class time. Occasional classwork quizzes will ensure that students regularly complete classwork assignments.

- *Lab time* Students must spend at least 3 hours each week in the lab working on mathematics, beginning the second week of classes. The lab is facilitated by teaching assistants trained to assist students enrolled in WLL courses. Students are responsible for signing in and out of the lab each time they enter or leave. Your lab attendance counts 10% of your final grade. Lab attendance is very important to this class and is not optional. Any lab time spend on non-mathematics activities (social media, email, sleeping, etc) will not count towards your 3 hours. You may attend the lab any time(s) you like during the open lab times, as long as you spend a total of 3 hours each week in the lab. Lab time cannot be carried over from one week to the next except in special circumstances with instructor approval. The teaching assistants will monitor your activities and notify me of any issues. The lab follows normal school holidays.

Lab Schedule	
Monday	11 noon - 7 pm
Tuesday	11 am - 7 pm
Wednesday	11 noon - 7 pm
Thursday	11 am - 7 pm
Friday	9 am - 3 pm

Lab Attendance Grading	
Total lab time	Points
Less than 1 hour	0
1 hour to 1 hour 59 minutes	0
2 hours to 2 hours 59 minutes	0
3 hours or more	1

- *Online homework assignments:* There will be a homework assignment for each section of the textbook covered. You may attempt each homework assignment as many times as you wish until it is due; only the highest score on each problem will count towards your grade.

- *Online quizzes:* There will be eight content quizzes, two quizzes per chapter. You will have two attempts at each quiz; only the highest score of the two will count towards your grade. Occasional in-class classwork quizzes will also count towards your quiz grade.

- *Tests:* There will be 4 in-class multiple choice tests. Test Dates are posted in the course calendar. Tests will take place during our regular class time. I will give makeup tests only with a valid, documented excuse.

- *Final exam:* The comprehensive final examination will be in multiple choice format on Wednesday Dec. 06, 2017 8:00-11:00 am.

Evaluation and Grading: The following weight distribution is going to be used to determine your final grades:

Lab Attendance	10%
Homework	10%
Quizzes	10%
Tests	40%
Final Exam	30%

The following grading scale will be used to determine your final letter grades:

A+	97–100	B+	87–89	C+	77–79	D+	67–69		
A	93–96	B	83–86	C	73–76	D	63–66	F	below 60
A−	90–92	B−	80–82	C−	70–72	D−	60–62		

Required Texts: Dugopolski, *College Algebra,* 6th ed., Addison Wesley, 2015. **The actual printed textbook is optional, you are only required to purchase a MyMathLab access code**. The code gives you access to an online version of the textbook (which you can print out page by page), all online assignments, video lectures, and tutoring help from the publisher. If you wish to have a traditional textbook, you should buy a bundle which consists of the book and the MyMathLab access code. You can get access to the MyMathLab portion of the course through the MyLab and Mastering link in Canvas.

Homework assignments will be available from the first day of class, with 2-3 assignments due each week. Quizzes will also be available from the beginning of the semester. Each homework and quiz assignment is due at 11:00 pm on its due date. Late HOMEWORK assignments only are accepted with 50% off the final grade. Quizzes will not be accepted late. You are strongly advised to start working on each assignment at least several days before it is due. Computers are unpredictable, and working on an assignment the day it is due is risky. Extensions on due dates will only be given in very extreme circumstances at the discretion of the instructor. Computer problems the night an assignment is due do not meet this criteria!

Final Examination: There will be a comprehensive final examination common to all sections of MAT 115 on Thursday, May 04, 2017 8:0011:00 AM. The location of the exam will be announced at the end of the semester.

Other Policies and Notes:

1. **Technical Support** The MyMathLab Technical Support number is 1-844-292-7015. Also you can reach MyMathLab Tech Support 24/7 from the MyMathLab support page: `https://support.pearson.com/getsupport/s/`

   In the event of technical difficulties with MyMathLab, you may attempt to access the site through the following website: `https://www.mathxl.com/login_mml.htm` If you have technical difficulties with MyMathLab, such as not being able to log in, not being able to access the course, etc., you must contact Technical Support; I cannot fix technical issues with MyMathLab.

2. **Academic Integrity Policy:** Students are expected to adhere to the UNCG *Academic Integrity Policy* available at `http://academicintegrity.uncg.edu`. In particular, all online assignments and in-class tests must be your own work. You may not receive help from anyone during a test. Failure to adhere to this policy may result in a zero on that assignment or test.

3. **Calculators:** You may use a scientific calculator (such as a TI-30). Graphing calculators will not be allowed. Sharing calculators or using cell phones/tablets as calculators during tests will not be allowed.

4. **Attendance:** I will take attendance at the beginning of each class. I generally give any announcements at the beginning of class, so it is polite and in your best interest to be in class on time. If you must miss class, you are responsible for any information you missed. You are expected to fully participate in each class meeting. The use of cell phones, tablets, computers, and other technology for any purpose other than the mathematics of our lesson is rude, distracting, and will not be permitted. Students who do not abide by this policy may be asked to leave and counted absent.

5. **Tutoring:** The tutors in the Math Emporium computer lab are available to answer any content-related questions. You may also email me with any questions that arise. I typically answer emails within one business day. I am also happy to answer any questions during my office hours. Please make use of these resources when you have questions.

   Math Help Center Free walk-in tutoring is available in Curry 210. For times, see http://www.uncg.edu/mat/helpcenter/ If you are falling behind, get help promptly from tutoring, and make use of the instructors office hours or schedule an appointment at another time. Any changes to office hours will be announced by email as soon as possible.

6. **Students with disabilities:** If you anticipate needing any type of accommodation in this course, please talk to me as soon as possible. You must be registered with the Office of Accessibility Resources and have proper documentation from them in order to have any type of accommodation during tests and/or the final exam. If you need extended time on tests, you must arrange this through the Office of Accessibility Resources.

7. **Special Note:** This syllabus and the course calendar are subject to change. Any changes will be announced and a new syllabus will be posted in canvas.

College Algebra   MAT 115 - 02 & 03   Spring 2017 Syllabus

Topical Outline/Calendar: Below is a calendar for the course containing sections of the textbook covered in class and due dates of all online assignments.

Class Date	Topics	Homework Due Date	Quiz Due Date
Mon 8/21	Orientation		
	Exponents and Polynomials	P.1 HW Due 8/23	
Mon 8/28	Factoring and	P.2 HW due 8/25	
	Solving Equations		
		P.3 HW due 8/27	
			Quiz 1 (P.1–P.3) due 8/28
		P.4 HW due 8/30	
		P.5 HW due 9/1	
		P.6 HW due 9/3	
Mon. 9/4	No Class (Labor Day)	P.7 HW due 9/5	
			Quiz 2 (P.4 - P.7) due 9/7
Mon 9/11	**Test 1** (P.1 - P.7)		
		1.1 HW due 9/14	
		1.2 HW due 9/16	
Mon 9/18	Graphing Lines and Circles	1.3 HW due 9/18	Quiz 3 (1.1–1.3) due 9/20
		1.4 HW due 9/22	
Mon 9/25	Equations and Inequalities	1.5 HW due 9/25	
		1.7 HW due 9/27	
			Quiz 4 (1.5–1.7) due 9/28
Mon 10/2	**Test 2** (1.1 - 1.2)		
Mon 10/9	(Fall break Oct 7 - 10)		
		2.1 HW due 10/13	
Mon 10/16	Quadratic Equations		
		2.2 HW due 10/18	
Mon 10/23	Solving and	2.3 HW due 10/23	Quiz 5 (2.1–2.2) due 10/25
	Graphing Polynomials		
		2.4 HW due 10/27	
Mon 10/30	Quadratic Inequalities	2.5 HW due 10/30	Quiz 6 (2.3-2.5) due 10/31
Mon 11/6	**Test 3** (2.1 - 2.5)	3.1 HW due 11/8	
		3.2-3.3 HW due 11/10	
Mon 11/13	Rational Functions		Quiz 7 (3.1-3.3) due 11/13
		3.4 HW due 11/15	
		3.5 HW due 11/20	
Mon 11/20	Review Day		Quiz 8 (3.4-3.5) due 11/21
Mon 11/27	**Test 4** (3.1 - 3.5)	Final exam review due 12/4	
Tue 11/30	Reading Day		
Wed 12/6	**Final Exam 8–11 am**		