



**Division of  
Academic Enhancement  
UNIVERSITY OF GEORGIA**

**UNIV 1110: Introduction to Pre-Calculus  
Spring 2018**

**Course Instructor Information**

Instructor: John Riggott

Email: jriggott@uga.edu

Phone: 706-247-3900

Office: 249 Milledge Hall

Office Hours: MWF 11-12    T/TR 8:15-9:15 (I will also be working some hours in the math tutoring lab in Milledge Hall this semester as well as online in the evenings. I will give you those times as soon as they have been scheduled.)

**Course Meeting Information**

Meetings: T/TR 9:30-10:45

Location: Journalism 510

**UNIV Courses are offered by the Division of Academic Enhancement**, a unit of the Office of Instruction at the University of Georgia.

The Division empowers all students to achieve success with innovative courses, programs, services, and student-centered initiatives. The DAE supports students as they transition into higher education and sustains their progress through the University's unique academic environment. We are committed to students, committed to success.

**Course Description**

During this course, students will participate in a review of algebra, problem-solving techniques, graphing functions, and (time permitting) a review of basic trigonometry to prepare them for precalculus.

**Learning Objectives**

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

1. Solve different types of equations including linear, quadratic, and rational.
2. Identify, evaluate, perform operations on, and find the domain, range, and inverse of functions.
3. Draw common graphs along with transformations and reflections.
4. Create, graph, evaluate, interpret, and solve real world applications involving linear, quadratic, exponential, and logarithmic functions.
5. Define and evaluate the six trigonometric functions using degrees and radians.
6. Draw the graph of sine and cosine functions.

## **Assignments and Projects**

Students will be evaluated in the following areas:

### **Homework:**

Homework will be assigned through Aleks and will count for 30% of your overall grade.

### **Tests:**

You will have three in class tests. Your test average will count for 50% of your overall grade.

### **Final Exam:**

Your final exam which will be discussed later in the course will count for 20% of your overall grade.

### **Extra Credit:**

If you choose to do the learning path on Aleks I will give you extra points for each area that you complete up to a maximum of 10 points.

## **Grading/Evaluation**

90-100 = A, 85-89=B+, 80-84=B, 75-79=C+, 70-74=C, 65-69=D+, 60-64=D, 0-59=F.

## **Course Materials**

Access to the online homework system through Aleks. The required calculator for Math 1113 is the TI-30X IIS. You may use a TI-83 or TI-94 for my course but be aware that when you take Math 1113 you will only be able to use the TI-30X IIS so it may benefit you to stick to that calculator for this course as well.

## **Course Policies**

Please be considerate of the students around you and do not use your technology for anything non course related during class time. Checking text messages or email or working on other assignments during class is very distracting to your fellow classmates.

## **Participation Policy**

Since this is a math class that will build upon itself on a daily basis you are strongly encouraged to attend all meetings. If you have to miss a class or test please let me know as soon as possible so that I can get you any missed handouts or arrange for a make up test time.

In the event that the university cancels classes, such as for severe weather, students are expected to continue with readings as originally scheduled. Any assignments scheduled during those missed classes, such as a project or paper, are due at the next class meeting unless other instructions are posted at the course website or communicated via email.

## **Disability Statement**

If you anticipate issues related to the format or requirements of this course, please meet with me. I would like us to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with the Disability Resource Center (Voice: 706-542-8719 or TTY: 706-542-8778) and notify me of your eligibility for reasonable accommodations. We can then plan how best to coordinate your accommodations.

## Academic Honesty Policy

As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty," and the Student Honor Code. All academic work must meet the standards described in "A Culture of Honesty" found at: <https://ovpi.uga.edu/academic-honesty/academic-honesty-policy>. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

## Other Division Resources

From peer tutoring through the Academic Resource Center to Academic Coaching to Student Success Workshops and more, the Division is committed to the success of all students at the University of Georgia. For more on these and other resources, visit <https://dae.uga.edu>.

## Course Outline:

The schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better student learning.

Week	General Topic
1 1/9-1/11	Review of algebraic concepts. (Solving equations)/ Intro to functions
2 1/16-1/18	Concepts of functions. Determine if given relation defines a function
3 1/23-1/25	Operations on Functions/inverse functions
4 1/30-2/1	Review/Test 1
5 2/6-2/8	Graphs of common functions and transformations
6 2/13-2/15	Properties of graphs
7 2/20-2/22	Review/Test 2
8 2/27-3/1	Linear functions
9 3/6-3/8	Quadratic functions
10 3/13-3/15	Spring Break No Classes
11 3/20-3/22	Exponential functions
12 3/27-3/29	Logarithmic Functions
13 4/3-4/5	Review Test 3
14 4/10-4/12	Introduction to the trigonometric functions
15 4/17-4/19	Drawing the graphs sine and cosine functions
16 4/24	Review for Final Exam

Note: The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.