

Course Syllabus

UNIV 1110 Introduction to Precalculus Fall 2017

Instructor: Xuechao Li

Office: 203 Milledge Hall

Cell Phone: 706-207-3881

E-mail: xcli@uga.edu

Office Hours: To be announced next week.

Supplementary Materials:

Access to the online homework system through Aleks and a calculator of your choice.

Purpose of this Course:

Prepare students for MATH 1113 (Precalculus)

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.

Topical Outline:

The following outline is given with the understanding that the topics may change depending on the pacing of the course.

- 1. Fundamental Concepts of Functions:** what is a function, finding function values, finding domain and range, operations on functions, and inverse functions.
- 2. Functions and Graphs:** Properties of Functions and Their Graphs transformations of Functions,
- 3. Linear and Quadratic Functions:** graphing, finding intercepts, finding slope and vertex, solving application problems
- 4. Exponential and Logarithmic Functions:** Properties, Graphing, Exponential Growth and Decay, solving equations involving exponentials or logarithms.
- 5. Overview of Trigonometry:** Definition and Properties of Sine, Cosine, and Tangent, Unit Circle, Graphs

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

Grade Components:

Your grade will consist of:

Homework – Homework will be assigned and graded through Aleks. Please go to www.Aleks.com click on the yellow sign up now tab. Enter the course code CAVQC-PXCFM in the boxes then click continue. You should see my class then click continue again. Click on I have never used Aleks before and then continue. Then either enter the access code you bought from the bookstore or purchase one online. Once you enter your access code create your account. I will show you in class how the learning path works. The assignments in Aleks will count for 40% of your overall grade.

Tests – there will be 3-4 tests given this semester. These tests will account for 40% of your final grade.

Final Exam – the final exam will be comprehensive and will account for 20% of your final grade.

Attendance 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 of 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.

University of Georgia Honesty Policy:

All academic work must meet the standards contained in "A Culture of Honesty." Students are responsible for informing themselves about those standards before performing any academic work.

The Honesty Policy is described in detail online in the publication *A Culture of Honesty* at http://www.uga.edu/honesty/ahpd/culture_honesty.htm.

**This course syllabus is a general plan for the course; deviations announced by the instructor to the class may be necessary.