

Course Syllabus

UNIV 1110 Introduction to Precalculus

Instructor: John Riggott

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Office Hours: I will have no set office hours this Fall. I will be available for help while working in the math lab in Milledge Hall on Monday, Wednesday, and Friday from 10-12 and 1:30- 2:00. If those times do not work for your schedule you can also ask questions via email or online Wednesday and Thursday nights from 10-midnight. (For directions on how to use the online tutoring please visit our website www.uga.edu/dae and click on tutoring then online tutoring.)

Text:

College Algebra (Fifth Edition), Blitzer.

ISBN: 0321559835

Supplementary Materials:

Calculator of your choice

Purpose of this Course:

Prepare students for MATH 1113 (Precalculus)

Course Description:

During this course, students will participate in a complete 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 Algebra: Exponents, Radicals, Factoring Polynomials, Solving/Simplifying Rational Expressions

2. Equations and Inequalities: Linear Equations, Rational Equations, Models and Applications, Complex Numbers, Quadratic Equations, Linear and Absolute Value Inequalities

3. Functions and Graphs: Properties of Functions and Their Graphs, Linear Functions and Slope, Transformations of Functions, Combinations of Functions, Composite Functions, Inverse Functions, Distance Formula, Midpoint Formula, Circles

4. Polynomial and Rational Functions: Properties, Graphing, Dividing Polynomials, Remainder and Factor Theorems, Zeros of Polynomial Functions, Polynomial and Rational Inequalities, Modeling Data

5. Exponential and Logarithmic Functions: Properties, Graphing, Exponential Growth and Decay, Modeling Data

6. Overview of Trigonometry: Definition and Properties of Sine, Cosine, and Tangent, Unit Circle, Graphs

Grading Policy: 95-100 = A+, 90-94=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 not be collected or graded. However, homework is an important component to being successful in this course. It is imperative to your learning that you keep up with assignments and ask questions when you need clarification.

Tests – there will be 4 tests given this semester after each chapter is covered. These tests will account for 70% 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.

Dates of interest: Due to some pre-schedule events we will not have class on the following dates: (please mark your calendars)

Wednesday September 2nd

Wednesday September 23rd