

Math 1310 Course Syllabus Mini 2016

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Webpage: <http://www.math.uh.edu/~bekki/Math1310.html>

This course requires an Access Code. This should be purchased from the campus bookstore ASAP.

All course materials are located on Space (<https://space.uh.edu/>)

To create your space account, go to the login page (<https://space.uh.edu>) and click the link "Create an Account for Yourself". Make sure your name and peoplesoft id match information in peoplesoft.

Components and Weights of Semester Assignments:

Test 1 **10% online**

Quizzes **20%**

Test 2-Test 5 **60% (each test is 15%)** See class calendar on Space for place and time

Homeworks **10%**

Total =100%

Practice test is extra credit.

10% of Practice test grade will be added to each test.

There are no make ups in this class

Textbook:

The learning materials for Math 1310, including the textbook, are found online on the Space site at <https://space.uh.edu/>. Students are required to purchase an access code at the Book Store to access the course learning materials.

Course Objectives:

Upon successful completion of this course, students will be able to apply algebraic rules and transformations to simplify or elaborate on mathematical expressions. Students will understand and be able to apply methods of solution of polynomial equations and will understand the properties of roots of such equations. They will be able to solve systems of linear equations and inequalities. They will understand properties of exponential and logarithmic functions and will be able to solve equations involving these functions. Students will be able to use graphical information and symbolic expression simultaneously in solving mathematical problems. They will be able to translate ordinary language descriptions of a problem into mathematical expression, i.e., they will be able to solve stated problems using algebra.

Math 1310 College Algebra – Topics List

An Introduction to Graphs and Lines

- Points, Regions, Distance and Midpoints
- Lines
- Graphing Equations
- Solving 2 x 2 systems of equations

Solving Equations and Inequalities

- Linear Equations
- Quadratic Equations
- Complex Numbers
- Linear Inequalities
- Absolute Value

An Introduction to Functions

- Basic Ideas
- Functions and Graphs
- Variation
- Transforming Functions
- Maximum and Minimum Values
- Combining Functions
- Inverse Functions

Polynomial and Rational Functions

- Polynomial Functions
- Dividing Polynomials
- Roots of Polynomials
- Rational Functions

Exponentials and Logarithms

- Exponential Functions
- The Number e
- Logarithms
- Properties of Logarithms
- Exponential and Logarithmic Equations

Whenever possible, and in accordance with 504/ADA guidelines, the University of Houston will attempt to provide reasonable academic accommodations to students who request and require them. Please call 713-743-5400 for more assistance.

Student taking distant testing outside UH needs to read the following link

Distance Education: <http://www.uh.edu/distance/>

Exam Proctoring: <http://www.uh.edu/distance/student-resources/proctoring/>