

Math 1310: College Algebra
Course Syllabus - Summer 2020 – Summer Mini Session

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Course Number: Math 1310
Section Number: 14848
Meeting Time: See CASA Calendar
Delivery format: Online*
Prerequisites: Math 1300 or a satisfactory passing score on a placement examination.

The information contained in this class outline is an abbreviated description of the course. Additional important information is contained in the departmental policies statement at <http://www.mathematics.uh.edu/undergraduate/courses/math13xx/> or at your instructor's personal webpage. You are responsible for knowing all of this information.

**Online Classroom: The link to the online classroom will be located in the main page of the course website in your CASA accounts. Once you click the link, follow the instructions to enter the online virtual classroom. Make sure you log into the classroom using your full name.*

**Note: This course is designed to prepare students for MATH 1330 Precalculus and MATH 1431 Calculus I. Students with prior credit in MATH 1330 or MATH 1431 will not be allowed to enroll or receive credit in MATH 1310.*

Course Description: In-depth study and applications of polynomial, rational, radical, absolute value, piece-wise, exponential and logarithmic functions/equations/inequalities, graphing skills and linear systems of equations and solution methods.

Upon successful completion of this course, the student will be able to

- Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, inverses of functions.
- Recognize, graph and apply polynomial, rational, radical, piece-wise, exponential, logarithmic and absolute value functions and solve related equations.
- Apply graphing techniques.
- Evaluate all roots of higher degree polynomial and rational functions.
- Recognize, solve and apply systems of linear equations.
- Solve absolute value, polynomial and rational inequalities.

IMPORTANT: *The instructor reserves the right to make changes on these policies. Any changes will be announced on the instructor's website in a timely manner.*

Textbook: The learning materials for Math 1310, including the textbook, are available online in electronic form (PDF) through CASA website at www.casa.uh.edu. **Students are required to purchase an access code at the Book Store to access the learning materials.** All students have free access to CASA until the access code deadline posted on the CASA course website. To have continuing access to all course materials at CASA, you need to enter the access code.

Online Structure:

You must have access to a computer and a fast internet connection to participate in this class.

A student enrolled in this class, is required to watch pre-recorded lectures and to take notes. The lecture notes and pre-recorded lecture covering the course material will be posted on the Notes page and sections a student is expected to watch will be listed in the calendar at CASA. Students are responsible for watching them in a timely manner.

Furthermore, the student is strongly advised to read the textbook.

Finally, the student is strongly advised to attend the live problem sessions with the instructor, during which the instructor will solve different problems from the lectures, quizzes and/or practice tests, and will answer any question(s) the student might have. If the student cannot attend the live problem session, a recording will be posted right after the session ends. The schedule of live meetings will be posted in the CASA calendar.

Note: Students are responsible for any content/announcements given in the live online lectures. Videos of the meeting are posted approximately 30 minutes after each class ends.

Access Codes: You need to purchase an Access Code at the campus bookstore.

Once purchased, enter the code into the online form at casa.uh.edu by the deadline. Students who have not entered a valid access code by the deadline will be denied access to their course account and will not be able to submit coursework until they enter a valid access code.

Communication by Email: Students are responsible for information about the course that is emailed to them using the email address that the students provide to the My UH site. It is the student's responsibility to keep the email address on file current and to make arrangements for email from the instructor, UH, and CourseWare to reach the student. If you are forwarding your UH email account to any other (yahoo, hotmail, etc), note that email rejection by these sites does NOT excuse you from finding out what your instructor has sent.

A student in this class is expected to complete the following assignments:

1. 4 Exams
2. Online Quizzes

Components and Weights of Semester Assignments:

- Test 1: 14%
- Tests 2-4: 22%
- Online Quizzes: 20%
- Total 100%

Grading Scale: If you call your average “x”:

A $93 \leq x \leq 100$	B- $80 \leq x < 83$	D+ $67 \leq x < 70$
A- $90 \leq x < 93$	C+ $77 \leq x < 80$	D $63 \leq x < 67$
B+ $87 \leq x < 90$	C $73 \leq x < 77$	D- $60 \leq x < 63$
B $83 \leq x < 87$	C- $70 \leq x < 73$	F $0 \leq x < 60$

Online Quizzes: See CASA Calendar for online quizzes due dates.

You may take each up to 20 times during the time that it is available.

Your highest score is retained as the score for that quiz.

There will be **no makeup quizzes** for any reason. **TWO lowest** quiz grade are dropped.

Neither the instructor, nor Math Department, is responsible for any difficulty that you have in accessing the quizzes. Please do not delay taking quizzes – there are times during the week when CourseWare is slow or overloaded. There is **no amnesty period** for the quizzes; the quizzes will NOT be reopened at the end of the semester.

If you miss a quiz, you will NOT have a chance to make up for it. Please contact CourseWare tech support directly if you are having technical problems for your account.

Tests:

Test 1 is over pre-requisite material from chapter 1 and sections 2.1, 2.2 and will be available all day on Wednesday, May 13.

Test 2 covers chapter 2 and 6.1 and will be available all day on Tuesday, May 19.

Test 3 covers chapter 3 (excluding section 3.3) and will be available all day on Saturday, May 23.

Test 4 covers chapters 4 and 5 and will be available all day on Friday, May 29.

You will have ONLY one attempt to complete each test. Study well.

Retests: There will be no “re-tests”. If you earn a score that is not satisfactory to you, that is unfortunate but is no cause for you to be allowed to take the test again.

Practice Exams: There are practice tests on Courseware. You can take the practice tests several times (up to 20 times) and we only take your best score. Pay attention to the “end” dates on these. None of the practice tests will ever be reopened.

5% of your best score on each Practice Test will be added to the corresponding test score.

UH CAPS: Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis.

No appointment is necessary for the "Let's Talk" program, a drop-in consultation service at convenient locations and hours around campus.

http://www.uh.edu/caps/outreach/lets_talk.html

CSD Accommodations: Academic Adjustments/Auxiliary Aids: The University of Houston System complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for students who have a disability. In accordance with Section 504 and ADA guidelines, University of Houston strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please visit The Center for Students with DisABILITIES (CSD) website at <http://www.uh.edu/csd/> for more information.

Accommodation Forms: Students seeking academic adjustments/auxiliary aids must, in a timely manner (usually at the beginning of the semester), provide their instructor with a current Student Accommodation Form (SAF) from the CSD office before an approved accommodation can be implemented.

Details of this policy, and the corresponding responsibilities of the student are outlined in The Student Academic Adjustments/Auxiliary Aids Policy (01.D.09) document under [STEP 4: Student Submission (5.4.1 & 5.4.2), Page 6]. For more information please visit the Center for Students with Disabilities FAQs page.

Additionally, if a student is requesting a (CSD approved) testing accommodation, then the student will also complete a Request for Individualized Testing Accommodations (RITA) paper form to arrange for tests to be administered at the CSD office. CSD suggests that the student meet with their instructor during office hours and/or make an appointment to complete the RITA form to ensure confidentiality.

*Note: RITA forms must be completed at least 48 hours in advance of the original test date. Please consult your counselor ahead of time to ensure that your tests are scheduled in a timely manner. Please keep in mind that if you run over the agreed upon time limit for your exam, you will be penalized in proportion to the amount of extra time taken.

“Incomplete”: An incomplete (“I”) may be given if all of the following criteria are met:

- The reason is a compelling NON-ACADEMIC reason.
- You have completed virtually all the course assignments.
- You have a passing grade on this work.

Incompletes are NOT available to students who have done little of the coursework nor for students who have failing grades on what they have done. See your instructor to fill out and sign the Incomplete contract – this is required and must be signed in advance of an I being posted. Imminent failure is not an acceptable reason to be awarded an incomplete.

Honor Principle: University of Houston students are expected to adhere to the Academic Honesty Policy as described in the UH Undergraduate Catalog. “Academic dishonesty” means employing a method or technique or engaging in conduct in an academic endeavor that contravenes the standards of ethical integrity expected at the University of Houston or by a course instructor to fulfill any and all academic requirements. Academic dishonesty includes, but is not limited to, the following: Plagiarism; Cheating and Unauthorized Group Work; Fabrication, Falsification, and Misrepresentation; Stealing and Abuse of Academic Materials;

Complicity in Academic Dishonesty; Academic Misconduct. Refer to UH Academic Honesty website and the UH Student Catalog for the definition of these terms and university's policy on Academic Dishonesty. Anyone caught cheating will receive sanctions as explained on these documents and will be reported to the department for further disciplinary action. The sanctions for confirmed violations of this policy shall be commensurate with the nature of the offense and the record of the student regarding any previous infractions. Sanctions may include, but are not limited to: a lowered grade, failure on the examination or assignment in question, failure in the course, probation, suspension, or expulsion from the University of Houston, or a combination of these. Students may not receive a W for courses in which they have been found in violation of the Academic Honesty Policy. If a W is received prior to a finding of policy violation, the student will become liable for the Academic Honesty penalty, including F grades.

Dropping the course: You are responsible for arranging to drop the course if you wish to do so. If you wish to drop the course, complete the online process at my.uh.edu before the deadline. Your instructor cannot drop you for any reason. Pay attention to the deadline and check your course enrollment status on my.uh.edu to make sure your drop has been processed.

College Algebra Topic 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/Other Equations

Complex Numbers

Linear Inequalities

Absolute Value

An Introduction to Functions

Basic Ideas

Functions and Graphs

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