Math 1330 PRECALCULUS - Course Syllabus
Summer 2019
Section Number: 12361

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Course Learning Materials:

You do not need to purchase a textbook for Math 1330. The textbook, online quizzes, EMCF assignments, and additional help materials will be made available by logging into CourseWare at http://www.casa.uh.edu. These first portion of these materials are freely available for the first two weeks of class. All students must purchase a Course Access Code and enter it on CourseWare by the first day of the third week of class to continue accessing the course learning materials. A Course Access Code can be purchased for about $55 from the University Bookstore.

More information about this course is posted on the course website. Your instructor reserves the right to make changes on the syllabus; any changes will be announced on the course website.

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/ and at your instructor’s personal webpage. You are responsible for knowing all of this information. Note that some 13xx policies do not apply to 1330 (for instance; no exemption/optout from the final in Math 1330).

PREREQUISITES: MATH 1310: College Algebra or a passing score on the test for placement out of College Algebra.

Math 1330 is a course mainly for students who have Calculus I in their degree plan. As such, the following rules apply to this course:

No calculators to be used on homework, quizzes, or tests (*).

No opt-out on the final; the final is mandatory for all students.

Please see an advisor to check about Calculus I being in your degree plan. If it is not there and if Math 1330 is not required for your major (as a prerequisite for another course), please take Math 1311 and Math 2311 as your core and reasoning.

*if you have calculator use on a SAF form, please take Math 1311 and Math 2311.
TEXTBOOK

The textbook, online quizzes, and additional help materials will be made available by logging into CourseWare at http://www.casa.uh.edu. The first portion of these materials are freely available for the first two weeks of class. **Students are required to purchase an access code at the UH Book Store to access the learning materials by the end of the second week of school.**

COURSE OBJECTIVES FOR PRECALCULUS

When you successfully complete this course, you will be able to:

1. Recall and apply basic algebra skills without requiring a review.
2. Recognize various kinds of functions (including polynomial, rational, radical, exponential, and logarithmic functions), analyze their behavior, and use the properties of these functions to solve equations and application problems.
3. Define trigonometric functions; understand the right triangle trigonometry and unit circle.
4. Know and apply identities involving the trigonometric functions.
5. Recognize the conic sections and their geometric properties.
6. Exploit graphical and analytical techniques in solving problems.
7. Analyze and explain the important elements of the mathematical solution of equations.
8. Recognize and use the vocabulary of vectors (vector, scalar, magnitude, direction) to perform arithmetic on vectors and to solve application problems.
9. Be self-disciplined and dependable through daily consistent work.

Components and Weights of Semester Assignments:

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

1) 4 Regular Exams  
2) Final Exam  
3) Online Quizzes  
4) Poppers/Attendance  

Test 1: 5%  
Test 2: 16%  
Test 3: 16%  
Test 4: 16%  
**Final Exam: 25% (mandatory for all students!)**  
Online Quizzes: 15%  
Attendance: 7%  
Total: 100%  

**Note:** The percentage grade on the final exam (without extra credit) can be used to replace your lowest test score if it is better than your lowest test grade.
For Math 1330, all students must take the final. Exemption from final is not available for Math 1330 students.

**GRADING SCALE**

If “x” is your average, letter grades will be assigned as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>$93 \leq x &lt; 100$</td>
</tr>
<tr>
<td>A-</td>
<td>$90 \leq x &lt; 93$</td>
</tr>
<tr>
<td>B</td>
<td>$80 \leq x &lt; 83$</td>
</tr>
<tr>
<td>B-</td>
<td>$77 \leq x &lt; 80$</td>
</tr>
<tr>
<td>C+</td>
<td>$77 \leq x &lt; 80$</td>
</tr>
<tr>
<td>C</td>
<td>$70 \leq x &lt; 73$</td>
</tr>
<tr>
<td>C-</td>
<td>$67 \leq x &lt; 70$</td>
</tr>
<tr>
<td>D</td>
<td>$67 \leq x &lt; 70$</td>
</tr>
<tr>
<td>D-</td>
<td>$63 \leq x &lt; 67$</td>
</tr>
<tr>
<td>F</td>
<td>below 60</td>
</tr>
</tbody>
</table>

**EXAM INFORMATION**

There will be 4 tests along with a mandatory final exam.

**Test 1** is an online test over the pre-requisite material (algebra). You can find it under online assignments tab at CASA. You have 2 attempts; we take your best score. It is recommended to take practice test 1 first to see what to expect on Test 1. You can review basic algebra topics to prepare for this test. You can find help videos for these topics on the course website.

**IMPORTANT:** If you score low on Test 1 (below 60 without extra credit); you may consider dropping this course and taking the prerequisite course to prepare yourself for this course.

The remaining tests (Tests 2, 3, 4 and final) are taken at CASA testing center, with reservation. Use “proctored exams” tab at your CASA account to reserve a seat for it.

To see the exam dates and topics covered, please visit course website. **You must make a reservation to take a test prior to the first testing day.** You should print out the web page showing your reservation time for your records and proof of your reservation.

**Exam topics:** *(Any change on the exam topics will be announced on the course website)*

<table>
<thead>
<tr>
<th>Test</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>Prerequisite Material</td>
</tr>
<tr>
<td>Test 2</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>Test 3</td>
<td>Chapter 5, 6.1, 6.2</td>
</tr>
<tr>
<td>Test 4</td>
<td>6.3, Chapter 7</td>
</tr>
<tr>
<td>Final</td>
<td>Comprehensive (covers all sections covered)</td>
</tr>
</tbody>
</table>

Tests are 50 minutes long. Push the “submit” button when you’re completely ready to leave the Testing Center, AFTER you’ve finished ALL the questions and checked your work.

If you miss a test, you receive a zero for it. When you take the final, the grade on the final will replace that zero. If you miss more than one test, only the first one will be replaced.
There are no retakes or makeups in this class.

You can NOT use calculators during any of the exams; study accordingly.

Final Exam:

Final is comprehensive and mandatory for ALL students. There is no “exemption” or “opt-out” from the final in Math 1330. No make-ups/no excuses. NO EARLY FINALS. Check your instructor’s website for final exam schedule. Final is given at CASA testing center. Reserve a seat for it when reservation begins. Your raw score on the final will be used to replace the lowest test score if it is better.

EXTRA CREDIT

There are practice tests and a practice final on Courseware. If you take the practice test, then 10% of the highest score you earn will be applied to the relevant test as extra credit on the corresponding exam. 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 re-opened.

INSTRUCTIONS FOR QUizzes

Online quizzes will be given regularly in this course.
  • The quizzes are located in the CASA CourseWare course website under the “Online Assignments” tab.
  • The quizzes will close on the due dates given on CourseWare at 11:59 pm and will not re-open.
  • One of the lowest quizzes will be dropped.
  • You have 20 times to take each quiz.
  • There is a 60 minute time limit for each quiz.
  • All of the quizzes are open starting the first day of classes.
  • Check your instructor’s website to see the topics covered on each quiz.
  • There may be 2 or more quizzes due every week; check the due dates carefully.

There will be no makeup quizzes for any reason. Neither I, nor the Math Department, is responsible for any difficulty that you have in accessing the quizzes. Please don’t 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 problems. The email link is on the CASA homepage.

INSTRUCTIONS FOR ATTENDANCE

  • Attending every lecture is strongly recommended.
• Your instructor will take attendance in every lecture and post your total attendance grade on CASA at the end of the semester.

LATE ASSIGNMENT AND MAKE-UP POLICY

This course is a cumulative course. You as a student need to keep up with the reading, quizzes, homework assignments and exams.

Your final exam score will replace your lowest midterm exam score if the former is higher. (This replacement, if applicable, will occur at the end of the semester after the Letter Grade Calculator (LGC) is turned off. A missed test will result in a score of zero. If you miss two or more exams, only one of those scores will be replaced.)

The primary reason for this policy is to offset the impact of zero/low test scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade. Therefore, students should not expect to have the option for a make-up test when such an emergency arises. Generally, there will be no make-up tests or "re-tests". *Possible exceptions are noted below.

*Note: *Exceptions may be made per the Student Academic Adjustments/Auxiliary Aids Policy for students with approved CSD accommodations (see above), as well as for students with an official excused absence as recognized by University of Houston in accordance with federal and state law.

COMMUNICATION via EMAIL

Your instructor will be sending class emails using PeopleSoft; you are responsible for checking your UH email. Per UH Policy, notices properly addressed and so sent (for example, via PeopleSoft) shall be presumed to have been received by the student. Thus, you are responsible for the content in emails sent to your UH account, regardless if your external (non-UH) email provider filters or blocks them.

When emailing your instructor, it is recommended that you use a professional email address and include the course name on the subject line so that your instructor can address your questions accordingly. Please read this link for more on communication via email: EMAIL ETIQUETTE (https://www.math.uh.edu/~tomforde/Email-Etiquette.html).

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 be reported to the department for further disciplinary actions, receive sanctions as explained on these documents, and will have an academic dishonesty record at the Provosts office. The sanctions for confirmed violations of this policy shall be commensurate with the nature of the offense and with 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.

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.

Students should bring a copy of their approved SAF form when meeting with the
instructor to complete a RITA form.

*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. Please keep in mind that if you run over the allotted time indicated on your RITA form, then your exam score will be reduced 1 percentage point for each minute over.

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.

Precalculus Topic List

Chapter 4: Trigonometric Functions
   Special Right Triangles and Trigonometric Ratios
   Radians, Arc Length and the area of a Sector
   Unit Circle Trigonometry
   Trigonometric Expressions and Identities

Chapter 5: Graphing Trigonometric Functions
   Trigonometric Functions of Real numbers
   Graphs of the Sine and Cosine Functions
   Graphs of the other Trigonometric Functions
   Inverse Trigonometric Functions

Chapter 6: Trigonometric Formulas and Equations
   Sum and Difference Formulas
   The Double-Angle and Half-Angle Formulas
   Solving Trigonometric Equations

Chapter 7: Trigonometric Applications
   Solving Right Triangles
   Area of a Triangle
   The Law of Sines and The Law of Cosines
   Vectors in the Plane

Chapter 8: Analytic Geometry
   Circles
   Ellipses
   Parabolas
Hyperbolas

Algebra Review: Functions
  Methods of Combining Functions
  Inverse Functions
  Polynomial and Rational Functions
  Exponential Functions
  Logarithmic Functions
  Exponential and Logarithmic Equations