

**University of Houston-Clear Lake**  
**Department of Mathematics and Statistics**

**Syllabus:** MATH 2412.11

**Course Name:** Pre-Calculus Mathematics

**Credit Hours:** 4

**Class Location:** Bayou B1218

**Class Meeting Time:** Tuesday, Wed., Th 12:00-14:20

**WebAssign Class Key:** uhcl 5404 9448

**Instructor:**

Travis L Knodel, M.S.

**Office Location:**

B 3521-16

**Office Hours:**

T, W, Th 11:00-11:50a

**Email:**

knodel@uhcl.edu

**Phone Number:**

281-283-3722

**Course Description:** In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

**Course Prerequisite:** MATH 1314 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

**Student Learning Outcomes:** Upon successful completion of this course, students will:

Demonstrate and apply knowledge of properties of functions.

Recognize and apply algebraic and transcendental functions and solve related equations.

Apply graphing techniques to algebraic and transcendental functions.

Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.

Prove trigonometric identities.

Solve right and oblique triangles.

**Course Materials:** The instructor will refer to and requires the following course materials:

**Textbook:** *Precalculus: Mathematics for Calculus*. Stewart, Redlin and Watson, 7<sup>th</sup> Edition, Published by Cengage, ISBN: 978-1-305-07175-9.

**Calculator:** A TI-83/84 is required for this course. The instructor recommends and will frequently use a TI-83/84 in class to demonstrate lecture material. It is recommended that the student bring the calculator to class daily. Unless otherwise directed, calculators are not allowed on quizzes, tests, or the final exam. TI-86/89/92, etc. are not allowed under any circumstance and are oftentimes incompatible with the programs and methods that the instructor and other students will employ on the TI-83/84 calculator.

**Course Packet:** A copy of the lecture notes will be posted on BlackBoard and available for purchase at the UHCL Copy Center (B2403). It is recommended that the student bring a copy of these notes to class for daily lectures.

**Course Assignments:** Homework, quizzes, tests, and a comprehensive final exam are assigned in this class. Each of these assignments has a specific goal in the learning process.

**Homework:** Homework is the foundation of a student's success in every math course. Daily homework is assigned and graded through WebAssign (<https://webassign.com>). Additional prescribed homework problems will be posted on BlackBoard to supplement student learning.

**Quizzes:** Weekly in class quizzes emphasize writing mathematics in a clear and concise manner. At least two quiz grades will be dropped to allow a reasonable accommodation for bad grade(s) and/or the event of absence. There are no "makeup" quizzes. Quiz solutions are posted on BlackBoard to allow for student study.

**Tests:** Tests are similar to homework and quizzes and focus on mastery of relevant course content. Test dates are given a week in advance to allow for preparation.

**Final Examination:** The final exam for this course is a comprehensive test covering the student learning outcomes for this class. The purpose of the test is to give the student and instructor a general view of student mastery of course material.

**Makeup Policy on Assignments:** Under the discretion of the instructor, there are generally no “makeup” homework and quizzes. If there exists a situation where the student is found to have a legitimate excuse for being absent to a test date, arrangements will be dealt with on a student-by-student basis. Students who plan on being absent to a test should contact the instructor as soon as possible to schedule an alternative time for testing. Students that fail to contact the instructor within 12 hours of a scheduled testing time or who do not take a test within one week of the scheduled date will be subject to an automatic “0.” Contact with the instructor of this course does not mean the student has been excused from a test date. Arrangements for missed tests are not final until the student presents reasonable documentation for absence. It is the student’s responsibility to follow through with test absence arrangements. When in doubt, the student should use good judgment and keep the instructor informed.

**Grading Formula:** The instructor will use a standard 0-100 grading scale for each assignment. The following formula is applied when assigning the student’s final average:

<b>Homework Average:</b>	25%
<b>Quiz Average:</b>	15%
<b>Test Average:</b>	40%
<b>+Final Exam:</b>	20%
<b>Total:</b>	100%

**Final Grade Assignments:** The instructor of this course will apply the above grading formula to assign the official final grades for this course as follows:

A:	90.0 – 100.0		
B+:	87-89.9	B:	80-86.9
C+:	77-79.9	C:	70-76.9
D+:	67-69.9	D:	60-66.9
F:	Below 60.0		

**Important Dates:** The official university academic calendar is posted and updated at: <http://prtl.uhcl.edu/registrar/academic-calendar> .

First Class Day:	6 June
Census Day:	12 June
Last Day to Drop/Withdraw:	10 July
Last Class Day:	27 July
Final Exam Days:	27 July
Scheduled University Holiday(s):	4 July

**Final Exam Dates and Time:** The official university final exam schedule is posted and updated at: <http://prtl.uhcl.edu/registrar/final-exam-schedule> .

**Date and Time of Final Exam for This Course:** Thursday, 27 July – 12:00-14:20

**Students With Disabilities:** The instructor of this course is determined to help students with disabilities overcome obstacles to success in their academic careers and provide reasonable, fair, and university approved accommodations. If you are certified as a disabled student by the UHCL Health and Disability Services Office, please notify the instructor of this course as soon as reasonably possible. If you are not currently certified and believe you should qualify, please contact the UHCL Health and Disability Services Office. <http://www.uhcl.edu/disability-services>

**Academic Integrity and Honesty:** Academic integrity and honesty is a fundamental expectation in higher education. A breach of academic integrity and/or honesty is usually treated universally by academic institutions with

extremely serious consequences to the violator(s) of these policies. Every student in this course is expected to abide by The University's Honesty Policy. <http://prtl.uhcl.edu/dean-of-students/files/academic-honesty-policy.pdf>

**Classroom Etiquette and Behavior Expectations:** Students and faculty each have a responsibility to maintain a productive learning environment. Disruptive behavior that interferes with the learning and success of other students and faculty is not tolerated. Students that distract from learning in the classroom will be asked to leave the classroom and not allowed to return until consultation with the instructor of this course has been completed.

Cell phones should be properly silenced and not used in class. Tablets and laptops are allowed in class, but only under the condition that they are used relating to material being discussed in class. The instructor does not allow the use of electronic devices in class that are not related to the course material (ie: no Facebook, Instagram, Reddit, news, web browsing, etc.). Students that violate this policy will be asked to put away their electronic device or leave the classroom.

**Six-Drop Limitation:** In accordance with Senate Bill 1231, an undergraduate student that enrolls in a Texas public college or university, as a first-time freshman, in Fall 2007 or later will be limited to a total of six dropped courses during their entire undergraduate career. Dropping this or any other course between the first day of class and the census date for the semester does not count against this rule. However, dropping a course between the census date and the last class day for the semester does count against this total. Students should take this limitation into consideration before dropping this or any other course. For more information about this rule, please contact SCE, SOE, or the Registrar. <http://prtl.uhcl.edu/registrar/6-drop-rule>

**Math Help:** The Math Center is staffed with tutors that can assist you with mathematics questions outside of your instructor's regular office and duty hours. The center is located in B2127 and is open Monday-Thursday 9:00-18:00 and Friday 9:00-14:00. <http://prtl.uhcl.edu/math-center>