**Course Syllabus**

**Class Location and Time**

**MATH 2312.005**

**TR 5:00pm-6:20pm**

**RBN 4027**

**Textbook**

*Precalculus: A Right-Triangle Approach 5th Edition* by Beecher, Penna, and Bittinger.

ISBN 978-0-321-96955-2

**Course Description**

This course is a survey of college algebra, trigonometry and analytical geometry to prepare students for calculus. Topics include algebraic functions and their graphs, exponential and logarithmic functions, trigonometric functions and identities.

**Student Learning Objectives**

**By the end of the course students should be able to:**

* Develop analytical reasoning to solve algebraic problems such as finding the solutions to polynomial, rational, exponential, logarithmic, and trigonometric equations, as well as finding inverse functions.

* Represent trigonometric functions by drawing relevant pictures on the unit circle, by writing the correct trigonometric definitions, and by verbal description.

* Demonstrate a critical understanding of functions by graphing and analyzing functions, evaluating functions at specific real numbers and at variable values, computing new functions from old functions through algebraic operations, and applying known theory such as the Factor Theorem to factor polynomials and find their zeroes.

* Calculate the values of trigonometric functions based on right-triangular and circular definitions.

* Solve right triangles given appropriate information about sides and angles.

* Prove the validity of trigonometric identities.

## Calculator Policy

Non-graphing calculators will be needed in the course and will be allowed on exams. You may not use your phone. All work <u>must</u> be shown on written assignments to receive credit. *No work, no credit - even if your answer is correct.*

## Homework

The astute student will notice that the homework is weighted the same as an exam. In math, the only successful way to study is to practice. As such, I believe homework to be vital enough that I've given it the same weight as each of the exams. Do your homework.

Homework will be due at the beginning of class. Please note that there will be homework due every class day except exam days. Late homework will not be accepted. I will be dropping your lowest homework grade at the end of the semester.

**Quizzes**

Weekly (hopefully) quizzes will comprise problems similar to homework. This means that if you keep up with your homework, you should do very well on your quizzes. There will be NO makeup quizzes. If you miss a quiz for any unexcused reason (including illness), you will not be allowed to make that up. I will be dropping your lowest quiz grade at the end of the semester.

**Grading Scheme**

The grading scheme for this course will be no more harsh than

90-100 A

80- less than 90 B

70- less than 80 C

60- less than 70 D

less than 60 F

*There will be no extra credit given for any reason.  Do not plead for extra credit at the end of the semester.*

**Exams**

There will be 3 midterm exams and a final exam in this class. The dates for the exams are on Canvas. All exams will be in class. There will be both calculator and non-calculator portions of the exams. You may not use a calculator on the non-calculator portion of the exam, but you will need a calculator for the calculator portion. Be sure to bring your own calculator. Phones cannot be used as calculators. You will not be allowed to borrow a classmate's calculator.

**Exam Dates**

**Exam 1 - Tues, Feb. 7**

**Exam 2 - Tues, Mar. 7**

**Exam 3 - Tues, Apr. 18**

**Final Exam - TBA**

**Cell Phones and Technology**

**Cell phone usage is not allowed during class and phones must remain on silent. You may use an iPad or tablet to take notes, however if it becomes a distraction, I reserve the right to ask you to put it away. If you need to take a call during class, please leave the room before answering in order to be respectful to your fellow classmates. During exams, phones must be stowed away in a backpack or purse. If I see a phone during an exam, you will be given a zero immediately and will be unable to continue the exam.**

**Classroom Behavior**

**No offensive language in the classroom (this includes inappropriate jokes or comments). Be respectful to one another. Unruly behavior - such as conversations during lecture - are grounds for being dismissed from class. Basically, don't be a distraction to the people around you.**