

**Math 4A 50657      Fall 2019**

**Instructor:** Scott Bucher

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**Class Meeting Time and Place:** CCI 201 T Th 6 – 7:50

**Text:** Trigonometry (11th Edition), Lial, Hornsby, Schneider and Daniels. Hardcopy or Digital Book. MyMathLab required.

**Access Code for MyMathLab** is bucher58415. Student must have joined MyMathLab by 9/27/2019

or they will be dropped by the instructor

**Technology** - A scientific calculator is a requirement for this course. Any calculator is acceptable, but it is strongly recommended that the student use a TI-83 or TI-84 the instructor knows how to use the TI-83 and TI-84. If you use any other calculator **YOU ARE ON YOUR OWN** to figure out how to use it.

While it is true that there are scientific calculator apps for your phone these cannot be used on the test because phones are not allowed during a test.

**Basic Skills Advisories:** English 125 and English 126

**Subject Prerequisites:** Math 103 or Equivalent

**Behavioral Standards:** Your classmates and I would greatly appreciate that you take care of any personal needs (i.e., using the restroom, getting a drink, sharpening a pencil) before class begins. Please turn your phone off, put it out of sight, and remove any earbuds when you come into class. You may not use your phone as a calculator. I would appreciate that you not bring guests to class.

**Important Dates.**

**Aug 23 Last day to drop to get a refund**

**Aug 30 Last day to drop to avoid a “W”**

**Oct 11 Last day to drop a full term class**

**Nov 28 Thanksgiving**

**Dec 12 Final**

**Course Description**

Trigonometry is a branch of mathematics that studies relationships between the lengths and angles of triangles. We will look at these relationships in detail in both right and oblique triangles, as well as trigonometric and inverse trigonometric functions, graphs, identities, trigonometric equations, vectors, polar coordinates, DeMoivre’s Theorem, and applications.

## COURSE OBJECTIVES

Students will be able to:

- apply the trigonometric functions to solve for the parts of a triangle.
- evaluate trigonometric functions of both acute and obtuse angles.
- solve problems involving vectors
- apply the concept of radian measure to circular functions
- apply trigonometric identities to simplify algebraic expressions and solve equations.
- apply the concept of polar coordinates to algebraic operations and graphs.
- apply computing and graphing technology.

## COURSE CONTENT OUTLINE

Chapter 1: Trigonometric functions

Chapter 2: Acute Angles and Right Triangles

Chapter 3: Radian Measure and Circular Functions

Chapter 4: Graphs of the Circular Functions

Chapter 5: Trigonometric Identities

Chapter 6: Inverse Circular Functions and Trigonometric Equations

Chapter 7: Applications of Trigonometry and Vectors

Chapter 8: Complex Numbers, Polar Equations and Parametric Equations (as time permits)

**Attendance:** Trigonometry is a course that builds each class session on the session before it. If you miss a class, it is very difficult to not fall behind. If you cannot make it to a class meeting, please notify the instructor ahead of time. If you miss a class without notification, it will be considered an unexcused absence. You will be dropped from the class after 3 consecutive unexcused absences or 6 total absences. (If there is no communication with the teacher.)

**Homework:** Homework will be assigned for each section we cover. (Approximately 40 sections) You will not master the material if you do not do the assignments. The assignments will be done on MyMathLab. The class access code is bucher7179. Assignments for each chapter must be done before the test for that chapter. After that they will not be accepted.

**Tests.** A test will be given at the end of each chapter. Every test will be worth 100 points. You must be in class on the night of an exam. No make-ups.

**Final Exam:** A comprehensive final will be given on the last day of class.

**Special Needs Requests:** If you have special needs as addressed by the Americans with Disabilities Act (ADA) including alternate media requests, please notify your course instructor immediately. Reasonable efforts will be made to accommodate your special needs.

**Grading:** Your final grade will be calculated using categories

Homework:	35%
Chapter Tests:	50%
Final Exam	15%

Letter grades will be based upon your percentage

A	>90%
B	80% to 89.9%
C	70% to 79.9%
D	60% to 69.9%
F	<60%