

MATH 142 • Trigonometry
CRN: 14033 • TTh 10:30–12:35 PM
Fall 2018 Syllabus

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Text: *McKeague, Turner, Trigonometry, 8th Edition, published by CENGAGE Learning*
ISBN-13: 978-1-305-65222-4

Paper: All graded work must be done on 8.5 x 11 in. or letter size paper. Work done on other sizes or spiral notebook paper will not be graded.

Course Description: This is a one-semester course in trigonometry designed to prepare students for the study of calculus. The topics to be covered include the following: algebraic skills, measurements of angles, trigonometric functions and inverse trigonometric functions, trigonometric equations and identities, graphing of trigonometric functions, solutions of triangles, applications, complex numbers, polar coordinates, DeMoivre's Theorem. Calculators will be used for selected topics.

Prerequisite: MATH 040 Intermediate Algebra and MATH 030 Plane Geometry with grades "C" or better or math skills clearance.

Student Learning Outcomes: 1) Solve a problem involving right triangles or oblique triangles, 2) Solve a trigonometric equation, 3) Use basic identities to verify a given trigonometric identity, 4) Construct the graph of a trigonometric function.

What to Expect: Trigonometry is a topic that requires a combination of analytical computation skills developed in algebra and reasoning skills learned by constructing proofs in geometry. There will also be more to memorize than you may be used to in a math class. As with every math course, homework is an important part of the learning process. The homework is supposed to be challenging and you are expected to struggle. Do not use the student solutions manual to circumvent this process. If a student puts considerable amount of effort into this class but does not pass, it is usually due to reliance on the solutions manual. Plan on spending at least 4 hours per week on out-of-class studying. Setting a regular schedule can be very effective.

Fullerton College Math Lab: The Math Lab is optional for this course but recommended. All students who wish to use the Math Lab must be enrolled in Math N01 F, a zero-unit, no cost, non-credit tutoring course. In the Math Lab you will have access to instructors and qualified math tutors for assistance solving problems or understanding concepts.

Contacting Me: The best way to contact me outside of office hours is by using email. My office hours are **Monday, 11:45 AM-12:45 PM, Tuesday 9:25-10:25 AM and 12:45-2:15 PM, Wednesday 11:45 AM-12:45 PM, Thursday 9:25-10:25 AM.**

Homework: I will assign and collect homework daily. Please read my homework guide on my website. **Late homework will NOT be accepted.** Your homework must be neat and organized, with the original problem, all of the necessary work, and the final answer circled or boxed. Disorganized and/or messy assignments with misleading information or correct answers that "magically" appear from incorrect work will receive no credit. Each section will be graded on a 5-points scale based on completeness. I encourage you to discuss the homework with classmates. However, you will be on your own during exams and quizzes, and the homework is designed to be preparation for these situations.

Quizzes: Quizzes consisting of problems from the homework will be given periodically. **There will be NO make-ups.** If you are not in class during the time we take the quiz, you will receive a zero on the quiz and you will not be able to make it up. Please try to make it to class on time.

Exams: There will be 4 exams during the semester and one comprehensive final exam. Tests must be taken on the date indicated on the course calendar. **Make-up tests will not be given.** In the event that it will help your grade, you may replace your lowest test score* with your score on the Final Exam.

Grades: Your semester grade will be determined using the following scale, rounded to the nearest percent: A: 90 – 100%, B: 80 – 89%, C: 70 – 79%, D: 60 – 69%, F: Less than 60%.

If your adjusted test average (your test average after replacing your lowest test score with your score on the final exam) is less than 70% at the end of the semester, your grade will be equal to your adjusted test average. In other words, to earn a C grade or higher, you must finish with a test average of a C or higher.

If your adjusted test average is 70% or greater, your grade will be determined using the following scale:

Homework	10%
Quizzes	10%
Tests	60%
Final Exam	20%

Calculators: A graphing calculator is recommended. The TI-84 graphing calculator is a good choice since this is the calculator I will be using during in-class demonstrations. A calculator may be permitted for use on some quizzes and tests. If you do not have a calculator at the time of the quiz/test, you may NOT share one with a classmate. TI-89 or above (or equivalent model) will not be allowed. You may not use your cell phone calculator on quizzes or tests.

Additional Resources: My web page is <http://staffwww.fullcoll.edu/psjoberg>. On the site you'll find copies of handouts, frequent updates of your grades as well as links to other helpful resources on the Internet.

Student Honesty Policy: Cheating at the college level is a very serious offense. If I observe you cheating on any test or quiz will receive a zero. If there is a second incident, you will receive a zero and the college administration will be contacted. If you receive a zero on an exam for cheating, you may not replace that score with your score on the final exam.

Attendance: Attendance will be taken each class meeting at the beginning and end of class. You are expected to be present from the beginning of class until the end. If you are absent for three days total during the semester and you have not contacted me--you will be **dropped from the course**. Absences, excused or not do not excuse you for missed work. No make-ups will be given for missed work.

Fullerton College Policies: The Fullerton College Catalog and the Class Schedule contain a number of policies relating to students that are important to you. Please be sure that you have read these publications thoroughly. You may purchase copies of these publications at the campus bookstore, or you may read them online at the Fullerton College website, www.fullcoll.edu.

*If you receive a zero on an exam for cheating, you may not replace that score with your score on the final exam