

In-Class Course

1. Semester Information

MAC 1114: Plane Trigonometry, 3 lecture hours, and 3 credit hours.

Prerequisite: Minimum grade of C in MAC 1105 or Math placement.

Current Semester: Spring 2025 CRN 13909

2. Contact Information

Instructor: Hadley Pridgen, BS Mathematics, MS Mathematics/Applied Statistics, EdS Mathematics Education. I have been teaching at Gulf Coast State College since 2008 and primarily teach statistics and calculus. Prior to teaching at GCSC, I taught physics and mathematics at Mosley High School. I am a graduate of both Mosley and Gulf Coast.

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Division Chair contact information: Angelia Reynolds, areynolds@gulfcoast.edu
(850) 872-3852

Division Admin. Assistant contact information: Scott Spencer, sspencer@gulfcoast.edu
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3. Approved Course Materials and Resources

Textbook information: Plane Trigonometry, Harris, Hudson, 2016, Gulf Coast State College. There is no ISBN; the textbook is provided free through Canvas when a student enrolls in the course. Students have the option of purchasing a printed copy in the GCSC bookstore.

Required Materials: Textbook (e-version through Canvas will suffice); Graphing Calculator (TI-83, TI-84 or TI-84 Plus recommended) is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. On some of the tests, the instructor will provide a formula sheet of trigonometric identities and a blank unit circle.

4. Curriculum

This course is primarily a lecture-based course, relying heavily on demonstration of sample problems. There will be some basic proofs where needed. Students will also have access to recorded lectures on Canvas. During pauses in the lecture, students may be asked to work in small groups to master a technique that has been demonstrated. As time permits, students may be allowed a review day prior to the test when they can work on their quizzes related to the test.

The overall goal of this class is to equip students with the tools they will need to be successful in the Calculus sequence, Physics courses, Differential Equations and Engineering classes. Trigonometry is especially important for students who plan to be Electrical engineers. Topics included are properties and graphs of trigonometric functions, properties and graphs of inverse trigonometric functions, trigonometric identities, conditional trigonometric equations, solutions of triangles, vector algebra, parametric equations, polar coordinates, and applications.

Learning Outcomes for MAC 1114, Plane Trigonometry

Students will

- Correctly apply trigonometric formulas, definitions, identities, and properties
- Correctly use mathematical symbols and structure to examine and solve real world applications
- Illustrate and examine the graphs of: the six trig functions and inverses, parametric and polar equations
- Solve trigonometric equations, right triangles, and oblique triangles
- Perform applications on vectors and complex numbers

5. What the Student Can Expect of the Instructor

Office Hours: I am available for office hours each week. The specific hours will be posted in Canvas the first week of classes. You may arrange to meet with me outside of official office hours with advanced notice.

Voicemail/Email response time of the instructor: I respond to emails normally within 24-48 hours with the exception of weekends and holidays. I will respond to voicemails upon return to my office. Email is the fastest way to get in contact with me.

Learning Management System Usage: I use Canvas as a repository of information. After each class, I will scan in the notes I wrote and post them. I also will post keys and any handouts. Additionally, any outside resources that I find beneficial will be housed in Canvas for student reference, including calculator guides and course videos. The gradebook will be set up to calculate current averages. Course evaluations will also be administered via Canvas.

6. Expectations of the Student

Learning Management System:

Students are expected to be able to use Canvas to access course videos, course documents and their grades.

ACADEMIC INTEGRITY:

Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an educational environment and therefore will not be tolerated. "Cheating" includes but is not limited to use of any unauthorized assistance in completing course work. "Plagiarism" includes, but it not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or zero) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the program or the college.

GULF COAST MATH LAB (Tutoring help!) Online or face to face:

The math lab is on the second floor of the SUW building rooms 260 and 261 and their operating hours can be found in Canvas and posted on the math lab door. They also offer online tutoring

during specific hours. Please take advantage of this free tutorial service. There should be a link in your Canvas course to the Math Lab page that includes more information and their operating hours.

Online Course Videos:

Course videos can be found on the Canvas under the test materials links. Students are expected to watch the videos to learn the course material to prepare for the exam. The instructor is available to answer questions about the videos by email.

ACCESSIBILITY:

Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Services. Appropriate academic accommodations will be determined based on the documented needs of the student. For information regarding the registration process, email sar@gulfcoast.edu or call 850-747-3243.

Recording of Lectures:

HOUSE BILL 233 RECORDING CLASSES In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines on pages 36-38 in the GCSC Student Handbook <https://www.gulfcoast.edu/current-students/documents/student-handbooks/2023-2024-student-handbook.pdf>

Attendance and Withdrawal policy:

A. Attendance Policy:

Students who are absent from class more than one eighth of a course without the instructor's permission shall be withdrawn. Students who never attend during the first two weeks of class shall be classified as "no show" and withdrawn from the course.

B. Withdrawal Policy:

Two withdrawals are permitted per course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance.

7. Measure of Student Performance

The average of the five or six unit tests will count 75% of your grade. A comprehensive departmental final exam (no exemptions) will count 25% of your grade. The college catalog will be used to convert the numerical average to a letter grade. GCSC grading scale A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0)

8. Details subject to change.

The syllabus found here is subject to change. The instructor will make the most current syllabus available to students by the first day of class.