

STUDENT COURSE INFORMATION SHEET

I. COURSE DESCRIPTION:

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

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

II. TEXT: Plane Trigonometry, Harris, Hudson, 2016, Gulf Coast State College

OTHER MATERIALS: A graphing calculator is required; TI-83, TI-84 or TI-84 Plus recommended. Your instructor may require you to perform problems on a test without the use of your calculator.

III. GENERAL COURSE OBJECTIVES:

The student will demonstrate ability to:

1. Describe an angle and convert between radian and degree measure.
2. Identify a unit circle and its relationship to real numbers.
3. Evaluate trigonometric functions of any angle.
4. Use fundamental trigonometric identities.
5. Sketch graphs of trigonometric functions.
6. Evaluate inverse trigonometric functions.
7. Evaluate compositions of trigonometric functions and inverse trigonometric functions.
8. Use fundamental trigonometric identities to evaluate trigonometric functions and simplify trigonometric expressions.
9. Verify trigonometric identities.
10. Solve trigonometric equations.
11. Use sum and difference formulas, multiple-angle formulas, power-reducing formulas, half-angle formulas and product-to-sum formulas to rewrite and evaluate trigonometric functions.
12. Use Law of Sines and Law of Cosines to solve oblique triangles.
13. Find areas of oblique triangles.
14. Perform basic vector operations.
15. Find direction angles of vectors and the angle between two vectors.
16. Perform operations with complex numbers.
17. Multiply and divide complex numbers written in trigonometric form.
18. Find powers and roots of complex numbers.
19. Sketch curves defined by parametric equations.
20. Convert equations between polar and rectangular form.
21. Graph polar equations.

IV. COURSE OUTLINE: See the attached daily class schedule for a detailed outline.V. ATTENDANCE-WITHDRAWAL-GRADE FORGIVENESS-ATTEMPTS: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Students who are absent from class more than one eighth of a course without the instructor's permission shall be withdrawn.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. There are two kinds of withdrawals, student and administrative. Please see the manual of policy for detailed withdrawal policies.

1. Student Withdrawal

Student completes a withdrawal form and submits the form to the Office of Admissions and Records before the withdraw deadline.

2. Administrative Withdrawal

This withdrawal is done online by an instructor for excess absences. Withdrawals initiated prior to midterm will be recorded as "W". There are no withdrawals initiated after the deadline. After this date, students will receive a grade.

C. Grade Forgiveness:

A student may repeat a course when a grade of "D" or "F" has been earned. The last grade counts. However, universities may count forgiven grades in calculating the grade point average. Forgiven grades may also be calculated in determining financial aid eligibility.

D. Attempts:

This course, which is a college credit course, may be attempted three times. On the third attempt, 100% of the full cost of instruction will be charged. Students with major extenuating circumstances may submit a letter of appeal stating the circumstances to the dean of students. All grades from the third and subsequent attempts will be calculated in the grade point average.

VI. HOMEWORK:

Homework will be assigned daily. The daily completion of all homework is essential for learning the material in the course and as preparation for the unit tests and final exam.

VII. TESTING:

There will be five unit tests given. The unit tests will be announced in advance, will count equally, and will be returned. The final exam will not be returned. There are **no exemptions** from the final exam. At the option of the instructor unannounced "pop-quizzes" may be given almost daily. The average of the daily grades will count as an additional unit test. Therefore, the number of grades counted as a unit test may be six. The student is expected to keep up daily with the assigned work.

VIII. GRADING:

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. The college grading scale is: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0)

IX. MAKE UP WORK:

No daily quizzes will be made up. If you miss a unit test and you have a valid excuse, your final exam grade may count as the first missing unit test grade. If you miss more than one unit test, you may take a make up test at the discretion of the instructor. If you have not missed any unit tests, the final exam could be used to replace the lowest unit test grade only if the instructor chooses to do so. The quiz average will not be replaced.

X. OTHER:

A. Studying requires discipline, tenacity, and hard work. View this course as a job. Attendance is absolutely necessary, as well as attentiveness to detail and alertness. You must earn a "C" in this course in order to advance to MAC 2311, Calculus with Analytic Geometry I.

B. The Pay4Print system is installed in all computer labs and in the library. The logon to the system can be found by going to www.gulfcoast.edu and clicking on Student Resources and then on Pay4Print. The logon will be the same logon ID as the student email, using only the initials and randomly generated number. Students will be required to add money to their print accounts before they are able to print. Money can be added to student print accounts by credit or debit card with a minimum of \$5.00 or at patron kiosks or bill acceptors.

C. Available Help Outside of Class:

1. Your Instructor

Full time faculty has posted ten (10) hours per week on their schedule. Their offices are located on the second floor of the Student Union West Building. Adjunct faculty is available for assistance 30 minutes before or after class. Students having difficulty are strongly encouraged to see the instructor for additional help.

2. Student Learning Outcomes

Student Learning Outcomes are available upon request. These outcomes are posted on the Mathematics' Web Site.

3. Course Videos

Course videos are also available online at <http://guides.gulfcoast.edu/math/coursevideos>.

4. Other

Any student who feels she or he may need an accommodation based on the impact of a disability should contact the Office of Disability Support Services at 850-872-3834 or in the Student Union East room 59. The Office of Disability Support Services will coordinate reasonable accommodations for all students with documented disabilities.

5. Math Lab

During the week, you may visit the Math Lab in SUW 260/261 for addition help. You will find professors and other tutors available to answer your questions from homework.

**CLASSROOM CONDUCT POLICY
OF THE
DIVISION OF MATHEMATICS
GULF COAST STATE COLLEGE**

In order to promote a learning environment, in which you as a student may receive the greatest consideration, we will do all we can to prevent unnecessary interruptions and class disruptions. To this end, it is the stated policy of the Division of Mathematics that disruptions, absolutely and unequivocally, will not be tolerated in the classrooms administered by this division. To this end, we remind you that the **instructors are obligated** to adhere strictly to the following policies:

1. Everyone is required to be in class on time.
Anyone entering the classroom after the instructor has begun class is late and is a disruption to the class. The instructor must implement an appropriate policy to discourage late arrivals.
2. Disciplinary action in the case of cheating will be administered in accordance with college policy.
3. The student must have prior consent of the instructor before leaving the class early.
If you must leave class early, notify the instructor before the beginning of class. We do not conduct "open" classrooms where individuals may arrive and exit at their discretion. This activity is disruptive to those trying to learn and will not be allowed. If you leave early without prior notification to the instructor, you will not be allowed back in the classroom without first obtaining permission from Mrs. Reynolds, Division of Mathematics Chair.
4. The instructor is not to allow talking or other distractions to occur at inappropriate times. **Use of electronic communication devices** (including, but not limited to, cell phones, Ipods, PDA's, MP3/Music players, Blackberries, etc) are allowed in the classroom only at the discretion of the instructor and must be used only as they directly relate to the class. Talking or other disruptive behavior (including ringing cell phones) are distractions to other students and have no place in a college environment. Students who engage in such behavior will be asked to stop. If the behavior continues, the student(s) will be asked to leave and confer with Mrs. Reynolds, Division of Mathematics Chair, concerning the nature of the behavior before being allowed back in the classroom. **NO** electronic devices will be allowed in the classroom on test days with the exception of an approved calculator.
5. **No food or drink is allowed in the classroom.**
6. Infractions of discipline may be handled by the instructor as final authority.
The student has a right to appeal.