

SYLLABUS
MATH 131–Trigonometry
Section 03
Spring 2012

Instructor:

James Solazzo
jsolazzo@coastal.edu

Office Hours:

Wall 124E 349-2717
MWF 10:00-11:00am and W 2:30-3:30pm
TTH 2:00-3:00pm and T 11:00am-12:00pm

Text: *Trigonometry – A Right Triangle Approach, 5e*, by Sullivan.

Course Objective: Students taking this course will be able to apply the fundamental techniques of trigonometry to other math classes as well as future sciences courses.

Exams: There will be three major exams and a cumulative common final exam. The exams will be on the following dates:

- Exam 1–Thursday, February 2 (up to section 3.1)
- Exam 2–Thursday, March 8 (up to section 4.1)
- Exam 3–Thursday, April 19 (up to section 5.6)
- Final Exam–Monday, April 30 at 4 PM, Room TBA (Cumulative including 6.2)

Exam dates are subject to change. Make-up exams will be made solely at my discretion. If you know ahead of time that you must miss an exam, you must let me know at least two class periods in advance. If you miss an exam due to some unexpected reason and fail to let me know in advance either via email, in person, or by phone, then you will not be allowed to make up the exam.

Content:

Chapter 2- Trigonometric Functions: 2.1 - 2.6

Chapter 3- Analytic Trigonometry: 3.1-3.5,3.7,3.8

Chapter 4- Applications of Trigonometric Functions: 4.1-4.3

Chapter 5- Polar Coordinates; Vectors: 5.1-5.7

Chapter 6- Conic Sections: 6.1-6.2

Homework: Doing *all* of the homework assignments is absolutely necessary but not sufficient for you to pass. For every hour you are in class you should expect to spend at least 90 minutes outside of class working on your own. Some homework will be collected for grading each week.

Quizzes: Short quizzes will be administered weekly throughout the semester. These problems come directly from the suggested exercise list. If you keep up with the suggested exercise set, then every quiz question will be a problem that you have already done. You should be able to answer the quiz questions if you attended class the previous day, reviewed the corresponding section in the textbook, and worked the exercises from the suggested list. At the end of the semester, I will drop your two lowest quiz grades. There will be absolutely no make-up quizzes. Your performance on quizzes will be used as an indicator as to how seriously you are taking this class.

Grade Policy: Your course grade will be weighted as follows.

Three In Class Exams	54% (18% each)
Quizzes and Homework	16%
Final Exam	30%

Grade Scale:

A: 90–100	B+: 87–89	B: 80–86	C+: 77–79
C: 70–76	D+: 67–69	D: 60–66	F: below 60

Calculators: No calculators will be allowed during any in class examinations or quizzes unless otherwise specified.

Class Attendance Policy: As stated in the University catalog, students are expected to attend every class session. For this class, more than five(5) absences (excused or unexcused) will result in your final grade being lowered—one letter grade for each excessive absence. Please do not put me in the position that I have to do this.

Absences, whether excused or not, do not absolve you from your responsibility to keep informed concerning all assignments made. Please get the notes from any class missed from another student.

Tutoring Help: You can get free tutoring in the Mathematics Learning Center (Prince 208). No appointment is necessary. The center hours are 8:30 am–7 pm Monday through Thursday, 8:30 am–3:00 pm on Friday, and 4–7 pm on Sunday(in the Kimbell Library). You can also get help from me during scheduled office hours or by making an appointment. It is important that you keep up and get help **early** if necessary.

Important Dates:

Monday, Jan 16	MLK Day
March 12 through 16	Spring Break
Thursday, March 22	Last day to drop w/ grade of "W"
Friday, March 30	Celebration of Inquiry
Friday, April 6	Student holiday
Wednesday, April 25	Last day of the classes
Monday, April 30th	Final Exam 4:00 - 6:00pm

Students with Disabilities: Any student with a documented disability needing academic adjustments or accommodations is requested to speak with me during the first week of class. All discussions will remain confidential.

Cell Phones: All cell phones must be turned off and out of sight during class.

Weekly Content Schedule

Week	Sections
1	2.1, 2.2
2	2.3, 2.4
3	2.5, 2.6
4	3.1, Test 1
5	3.1,3.2,3.3
6	3.4,3.5,3.7
7	3.8,4.1
8	4.1,4.2,4.3
9	Review, Test 2
10	Spring Break
11	5.1, 5.2
12	5.3, 5.4
13	5.5, 5.6
14	5.7,6.1,6.2
15	Review, Test 3
16	Review for Final Exam

Math 131 Student Learning Outcomes

The successful student will demonstrate the ability to:

1. Compute the values of the six trigonometric functions for key angles measured in both degrees and radians.
2. Graph the sine, cosine, and tangent functions along with their transformations.
3. Implement the basic trigonometric identities to verify other trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Plot points and graph equations in the Polar Coordinate system.
7. Implement the concepts of trigonometry to solve applied problems
8. Plot vectors in two dimensions and perform vector arithmetic in two and three dimensions including the dot product and cross product.
9. Identify parabolas by focus and directrix.