

Math 131-11

Trigonometry Syllabus

Spring 2020

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Office Hours: MWF 10-11 and MWTh 1-2 and by appointment

Textbook: Trigonometry: A Unit Circle Approach (10th edition) by Sullivan

Required Course Materials:

- **Software:** MyMathLab (Use course ID: incognito87488)
This code gives you full access to the textbook.
- **Calculator:** A scientific calculator is required. Any calculator capable of symbolic manipulation, e.g. TI-89, TI-Nspire, is not allowed. Cell phones/iPads are not acceptable substitute for a calculator and will NOT be allowed.

Prerequisite: A grade of C or better in Math 130 or Math 130I

Course Objectives: Students taking this course will acquire the fundamental knowledge and techniques of trigonometry, and apply them to develop problem-solving skills.

Course Description: Right triangle and circular trigonometry, graphs of trigonometric and inverse trigonometric functions, trigonometric identities, solving trigonometric equations, vectors, and their applications

Student Learning Outcomes: At the completion of the course, the successful student will be able to

(1) Compute the exact values of the six trigonometric functions for general angles.

- (2) Graph the sine, cosine and tangent functions along with their transformations.
- (3) Use basic trigonometric identities to verify other trigonometric identities.
- (4) Solve trigonometric equations.
- (5) Solve right triangles, oblique triangles and related applied triangle problems.
- (6) Find area of triangles.
- (7) Plot points and graph equations in the polar coordinate system.
- (8) Graph vectors in two dimensions.
- (9) Perform vector operations including the dot product.

Quizzes: Quizzes will be given frequently throughout the semester. At the end of the semester, your lowest quiz score will be dropped.

Homework: Is divided into two parts, **MyMathLab** and **Written Homework**. Doing all of the homework assignments is absolutely necessary but not sufficient for you to pass. For a full list of review questions please refer to the end of this document for the suggested exercises list.

- **MyMathLab:** A selection of homework problems will be assigned through MyMathLab. The due dates are posted in MyMathLab. If you work on the HW after the due date, a penalty of 10% per day will automatically be deducted. At the end of the semester, your lowest score will be dropped. Absolutely no late homework will be accepted one week after the posted due date in MyMathLab.
- **Written Homework:** Paper and pencil homework is also assigned and collected once a week for grading. You are encouraged to discuss homework problems with classmates. However, you are expected to individually write up your solutions, and you are responsible for your own understanding of the material. At the end of the semester, your lowest score will be dropped.

Exams: There will be three 50-minute exams and a cumulative final exam. Make-up exams will be given at my discretion. The tentative exam dates are as follows.

Date	Exam	Sections
February 11	I	2.1—2.5, 4.1
March 23	II	3.1-3.6
April 24	III	4.1-4.4, 5.1, 5.2, 5.4, 5.5
May 5	Final	Cumulative

Grade Policy: Your course grade will be determined as follows:

Quizzes	Written HW	MyMathLab	3 Tests	Final
10%	10%	10%	45%	25%

Grade Scale: The grading scale (in percentage):

90-100	87-89	80-86	77-79	70-76	67-69	60-66	0-59
A	B+	B	C+	C	D+	D	F

Extra Credit: There is no extra credit in this course.

Moodle: I will be using Moodle (<http://moodle.coastal.edu>) to post course related materials and your grades.

Contingency Instruction: In the event that class is cancelled due to hazardous weather events on campus, please check your email. Instruction will continue via MyMathLab and/or Moodle, if possible.

Important Dates:

Monday, January 20	MLK Day
March 9-13	Spring Break Week
Wednesday, March 25	Last day to drop with grade of W
Friday, April 10	Student Holiday
Wednesday, April 29	Last day of classes

Getting Help:

- You can get help from the professors teaching at Coastal during their Math Outreach hours. A schedule for the semester will be posted on Moodle.
- You can get free tutoring in the Mathematics Learning Center. No appointment is necessary. Visit their webpage <https://www.coastal.edu/mathcenter/> to learn about them.
- 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 needed.

Academic Coaching Experience Department: Academic Coaches help students develop and refine big picture academic skills like time management, note taking, studying, and test-taking. Academic coaching can help you with your math course by helping you sort all the information and create an action plan for an upcoming exam. They can discuss study strategies to help you better understand and remember course content. They can also help you prepare for meetings with tutors or instructors so you can better explain your questions about the material or your academic performance. Finally, you can also talk to an Academic Coach about anything going on in your life, and they can suggest other campus resources that may be able to help. You can make an appointment with an Academic Coach by calling 843-349-4001 or stopping in to Kearns 107A. You can also find them on Instagram: @ccuacademiccoaching, where they offer study tips and publicize special events like review sessions or workshops.

Accessibility and Disability Services: Coastal Carolina University is committed to equitable access and inclusion of individuals with disabilities in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Individuals seeking reasonable accommodations should contact Accessibility & Disability Services (843-349-2503 or <https://www.coastal.edu/disabilityservices/>).

Attendance Policy: Students are obligated to attend class regularly. Absences, excused or not, do not absolve students from the responsibility of completing all assigned work promptly. Read in the following page for details:

<https://www.coastal.edu/policies/pdf/acad-129%20class%20attendance-%20august%202016.pdf>

Cell phone, Ipad/Tablet, Computer Policy: Except in emergencies, the use of cell phones, ipads/tablets or other mobile communication devices is disruptive, and is therefore prohibited during class. Students are permitted to use computers during class for note-taking and other class-related work only.

Moodle Support for Students:

a. Go to the Moodle Main Page: <http://www.coastal.edu/moodle/> and click on Resources then Student Resources or go the direct link <http://libguides.coastal.edu/moodlestudent>) for the Moodle Guide for Students with step---by---step guides

b. Students can also click on the Student Help Request in Moodle located at the top of the menu in each course.

Technical Support from Student Computing Services:

- a. Check the website for hours, locations and other services (<http://www.coastal.edu/scs>).
- b. Student Computing Services Main Help Desk: 843.349.2908
- c. Student Computing Services Tech Support Center: 843.349.2220
- d. A list of on-campus HelpDesks, chat and other resources can be found at this link: (<http://www.coastal.edu/scs>)

Statement of Academic Integrity: Coastal Carolina University is an academic community that expects the highest standards of honesty, integrity and personal responsibility. Members of this community are accountable for their actions and reporting the inappropriate action of others and are committed to creating an atmosphere of mutual respect and trust. Please review the revised Code of Conduct that is available on the web at: <https://www.coastal.edu/conduct/>

Suggested Exercises: These exercises are selected from the textbook to help you master the course material through practice. Problems appearing on quizzes, examinations and the final examination are very similar to these listed below.

Section	Exercises
2.1	11-21 odd, 35-57 odd, 71-97 odd
2.2	13-83 odd
4.1	9-19 odd, 20
2.3	11-87 odd, 95-103, 107-109
2.4	13-21 odd, 23-32, 33-69 odd
2.5	15-24, 33, 37
3.1	15-26, 27-57 odd
3.2	9-35 odd, 57-60
3.3	13-25 odd, 59-81 odd
3.4	21-43 odd, 54, 63, 64, 71, 73
3.5	13-41 odd, 49-63 odd, 75-85 odd (draw triangle)
3.6	9-29 odd, 71, 73, 81-91 odd

4.1	21-41 odd, 43-55 odd
4.2	9-35 odd, 37-43 odd
4.3	9-41 odd, 43, 49
4.4	7-25 odd
5.1	11-31 odd, 41-63 odd
5.2	15-34, 36-38
5.4	11-15 odd, 29-71 odd
5.5	9-18

The syllabus is for planning purpose only and is subject to change.