

WEST LOS ANGELES COLLEGE, Fall 2015
MATHEMATICS 241- 4499: TRIGONOMETRY with VECTORS
MW, 7:30pm – 9:35pm, Room AT-A214

Instructor: Juliana Howe, email: jhowe3@calstatela.edu

Office hours and location: MW, 7:00pm to 7:25pm, AT- A214

Text: Trigonometry, 7th Edition (Charles P. McKeague , Mark Turner) ISBN-10: 1111826854 or ISBN- 13: 9781111826857, 592 Pages Hardcover © 2013

Alternately: http://www.coursesmart.com/IR/5026655/9781111826857?_hdv=6.8

The 5th edition can probably be rented at the bookstore.

Topical outline: This course of analytical trigonometry includes solutions of triangle problems, radian measure, graphs of trigonometric functions, trigonometric equations, identities, polar coordinates, inverse trigonometric functions, complex numbers and vectors.

Course Objectives: By the end of the course, the student should be able to explain concepts, solve problems, and compare and contrast the following topics

1. Define the six trigonometric functions.
2. Evaluate trigonometric functions.
3. Find all solutions to problems involving the ambiguous case of the Law of Sines.
4. Distinguish between trigonometric equations and identities.
5. Distinguish between multiple-solution and single-solution equations.
6. State the reasons for range restrictions of the inverse trigonometric functions.
7. Recognize the connection between complex numbers and trigonometric functions.

Warning:

Math 241 (in four weeks) is extremely fast. Do assigned homework regularly daily. This is the absolute minimum. You need to reach the point where you can do homework without help from any source. Form study groups.

Course Format:

The course is delivered in small sections through textbook sections.

Familiarize yourself with the material in the section presently covered in the textbook

Read the textbook sections before coming to class, work out the examples with pencil and paper. Rework the examples if necessary till you can reproduce them without help from any source. Now you are ready for the homework from the textbook. Do at least the odd numbered problems, more if needed. Make sure you memorize identities. It is a lot of work, but necessary.

Take the tests when scheduled. Your grade on the final will be substituted for a missed test. Show enough work on paper so that your reasoning can be followed without additional oral explanations and associate each piece of scratch work with a problem number. Box in answers on paper.

Visit the restroom before the test. If you need to go, visit the nearest restroom and return promptly. Visiting the restroom during testing puts you under suspicion of cheating.

Turn off all music and other electronic devices during testing. Clear your desk of all objects, especially phones, except writing instrument, scientific or calculator and test papers. If the student next to you is taking the test, move as far away as possible. The date for taking the final is fixed by the college.

Requirements: *Homework 10%, Exams 60%, Final 30%*

Grading system: *A = 90% - 100%; B = 80% - 89%; C = 70% - 79%;*

D = 60% - 69%; F = 0 - 59%.

The grade of Incomplete will be issued only if the student is prevented from taking the final due to a verifiable emergency before the final. A student who is not passing the class or has personal issues affecting performance needs to withdraw before the withdrawal deadline.

Attendance:

You can be dropped from class if you miss two class sessions, but the ultimate responsibility for officially withdrawing is yours.

Conduct:

You are adults and will be treated accordingly. Likewise, you will behave accordingly. I will not tolerate any student or classroom situation that distracts from a positive learning environment. That includes eating/drinking in class (except for water) and talking, use of laptops and any electronic devices other than calculators. You could be suspended for one or two days by the professor. You could also be sent to the Dean of Student Services for these and other violations for disciplinary action, including longer suspension and expulsion.

Board Rule 9803.17

Interference with Peace of College The malicious or willful disturbance of the peace or quiet of any of the Los Angeles Community Colleges by loud or unusual noise or any threat, challenge to fight, or violation of any rules of conduct as set forth in this Article. Any person whose conduct violates this section shall be considered to have interfered with the peaceful conduct of the activities of the college where such acts are committed.

Dishonesty Policy:

Cheat once, get an F on the test. The incident will be reported to the vice president of student services. Cheat again, fail the course and get reported to vice president of student services.

Recording devices:

State law in California prohibits the use of any electronic listening or recording device in a classroom without prior consent of the instructor and college administration. Any student who needs to use electronic aids must secure the consent of the instructor. If the instructor agrees to the request, a notice of consent must be forwarded to the Vice President of Academic Affairs for approval. Put cell phones on vibrate.

Disciplinary action:

Violation of Board Rules shall result in student discipline imposed in accordance with the Student Discipline Procedures as stated in Board Rule 91101. Discipline includes warning, reprimand, disciplinary probation, suspension or termination of financial aid, suspension, withdrawal of consent to remain on campus, expulsion subject to reconsideration, and permanent expulsion.

Student grievance procedure:

The purpose of the student grievance procedure is to provide a prompt and equitable means of resolving student grievances. The procedure enumerated in Administrative Regulation E-55 shall be available to any student or applicant for admission who believes a college decision or action has adversely affected his or her status, rights, and/or privileges as a student. Education Code Section 76224(a) governs grievances relating to course grades.

Disabled students programs & services:

West Los Angeles College recognizes and welcomes its responsibility to provide an equal educational opportunity to all disabled individuals. The Office of Disabled Students Programs and Services (DSP&S) has been established to provide support services for all verified disabled students pursuing a college education. All services and equipment are provided free of charge to any qualifying disabled student. The DSP&S Office is located in the Heldman Learning Resources Center (HLRC), room 119. The Office is open Monday through Thursday, 9:00 a.m. to 5:30 p.m., and Friday, 9:00 a.m. to 12:00 p.m. Early morning and evening appointments can be made by special arrangement. The telephone number is (310) 287-4450. The following services are offered:

- Note taking assistance.
- Classroom accommodations for students with disabilities.
- Registration assistance.
- Special parking permits.
- Academic and career guidance counseling.
- Adaptive equipment and technology aids.
- Specially adapted computers.
- Test proctoring and related accommodations.
- Instructor liaison.
- Learning strategies and study skills classes

The DSP&S Office also maintains a liaison with the California Department of Rehabilitation and other public agencies such as the Regional Center and Westside Center for Independent Living. These guidelines may be changed to improve or further class atmosphere. Form study groups. Homework: state the problem, show steps, including scratch work, check answers.

Options if a scheduled class does not meet:

A scheduled class is canceled (campus closed for some reason - electrical failure or other emergency, ..., professor breaks a leg, ...) You are still responsible for the material, as if the class had been conducted. Communicate with your professor through e-mail within the Etudes website or using the e-mail address given. Make sure the college has your latest e-mail address, phone number, other personal information. If the professor is late (traffic, car accident, personal emergency, ...) stay in class and work on the planned section(s) in the textbook as much as possible. Help each other.

Program SLO:

- Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, multiplication, division) to solve common academic and workplace problems. (Theme: mathematical operations)
- Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
- Select appropriate math strategies for solving and handling real life problems involving finance, economics, and family issues. (Theme: mathematical operations)

Tentative Schedule:

Week #	Monday	Wednesday
1	1.1	1.2, 1.3
2	<i>Labor Day Holliday :)</i>	1.4, Group Project
3	2.1, 2.2	2.3, 2.4
4	2.5, Review	Test # 1
5	3.1, 3.2	3.3, 3.4
6	3.5, Group Project	4.1, 4.2
7	4.3, 4.4	4.5, 4.6
8	Review	Test # 2
9	5.1, 5.2	5.3, 5.4
10	5.5, Project	6.1, 6.2
11	Test # 3	<i>Veterans Day Holliday :)</i>
12	6.3, 6.4	7.1, 7.2
13	7.3, 7.4	7.5, 7.6
14	Review	Test # 4
15	8.1, 8.2, 8.3	8.4, 8.5, 8.6
16	Review	Final Exam

Note: Syllabus is subject to change at the discretion of the instructor.