

**Math 241 Section 1499** M-Th 11:10-12:15 S 14 (E-mail: feinerh@wlac.edu Math 241 in subject area.)

**Professor:** H. Feiner, office MSB219 MW 2:30-4:30 and TTh 1:00-2:00 . (Phone 310-287-4543)

**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](http://www.coursesmart.com/IR/5026655/9781111826857?_hdv=6.8)

The 5<sup>th</sup> edition can probably be rented at the bookstore.

### **Course Description:**

Math 241 is a regular lecture class. Students choose the course as a face-to-face course. Students must be registered with WLAC in Culver City, CA, and follow all rules, regulations, and deadlines. This includes the admonition that you must withdraw officially before the deadline in case you abandon the class. Failure to withdraw will result in failure of the course. All students have an Etudes account to be used.

### **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. The six trigonometric functions
2. Angles, degrees, radians, and angle measurement
3. Right triangle trigonometry
4. Calculators and the values of the trigonometric functions of acute angles
5. Circular functions
6. Arc length and area of sector
7. Graphing and inverse functions
8. Basic graphs
9. Amplitude, period, and phase shift
10. Proving trigonometric identities
11. Solving trigonometric equations

12. The laws of sines and cosines

13. Vectors, an algebraic approach

14. Complex numbers, and trigonometric forms

15. Polar coordinates, and equations in polar coordinates.

**Warning:**

Math 241 (in five 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.

### **Hints:**

When answering test questions, budget your time. Ten problems solved in 50 minutes allows five minutes per question on the average. Don't spend more time on the first go-around. Answer questions in order and show reasoning on scratch paper. Identify each piece of scratch work with a problem number.

A grade is adjusted in case of clerical error (check additions, etc.)

## **Scoring and Evaluation:**

**Homework (including chapter tests) (5%) turned in with the final.**

**5 Tests: (60%)**

**Final: 35% points.**

**Extra credit: None**

**A: 90.1%- 100%**

**B:80.1%- 90%**

**C:70.1%- 80%**

**D:60.1%- 70%**

**F: Below 60%**

**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. 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 SLOs:**

- **Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, multiplication, division) to solve common academic, workplace, and family 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 problem-solving)**

**Tentative schedule:**

M 9-01 :Holiday	T 9-02: 1.1	W 9-03 1.2	Th 9-04: 1.3
M 9-08: 1.4	T 9-09: 1.5	W 9-10 : Chapter 1 test	Th 9-11:2.1
M 9-15: 2.2	T 9-16: 2.3	W 9-17: 2.4	Th 9-18: 2.5
M 9-22: Chapter 2 test	T 9-23: <b>Test 1</b>	W 9-24: 3.1	Th: 9-25: 3.2
M 9-29: 3.3	T 9-30: 3.4	W 10-01 :3.5	Th 9-02: Chapter 3 test
M 10-06:4.1	T 10-07: 4.2	W 10-08: 4.3	Th: 10-09: 4.4
M 10-13:4.5	T 10-14: 4.6	W10-15 : Review	Th 10-16: Chapter 4 test
M 10-20: <b>Test 2</b>	T 10-21: 5.1	W 10-22 : 5.2	Th 10-23: 5.3
M 10-27:5.4	T 10-28: 5.5	W10-29 : Chapter 5 test	Th 10-30: 6.1
M 11-03:6.2	T 11-04: 6.3	W 11-05: 6.4	Th 11-06: Chapter 6 test
M 11-10: <b>Test 3</b>	T 11-11: Holiday	W 11-12:7.1	Th 11-13:7.2
M 11-17 : 7.3	T 11-18: 7.4	W 11-19: 7.5	Th 11-20: Review
M 11-24: Chapter 7 test	T 11-25:8.1	W 11-26:8.2	Th 11-27: Holiday
M 12-01: 8.3	T 12-02: 8.4	W 12-03:8.5	Th 12-04: 8.6
M 12-08: Chapter 8 test	T 12-09: <b>Test 4</b>	W 12-10: Review	Th 12-11: Review
M 12-15: <b>Final 11:30</b>			

## SLOs

Course SLO	Assessment Method	Criterion Level
<p>One sentence that describes a major piece of knowledge, skill, or ability that students can demonstrate by the end of the course</p> <p><i>Finish the sentence, "At end of the course, the successful student will be able to..." "</i></p>	<p>Major assignment, project or test used to demonstrate or apply outcome</p> <p><i>Remember to have a mix of qualitative and quantitative assessment methods.</i></p>	<p>Reflects satisfactory performance on the SLO</p> <ul style="list-style-type: none"> <li>• <i>At least X percent of students achieve this course SLO.</i></li> <li>• <i>All students achieve at least the Y level on this SLO.</i></li> <li>• <i>At least X percent of students achieve the Y level on this course SLO.</i></li> </ul>
<p>1. Use the trig ratios and the laws of sines and cosines to solve applied problems involving triangles.</p>	<p>Students will answer questions embedded on a final exam or other in-class exercise.</p>	<p>At least 60% of students will achieve at least the 70% level on this SLO.</p>

