



**Division:** Mathematics

**Course name:** Math 241: Trigonometry

**Section:** 1499 / **Semester:** Winter 2016

**Instructor Name:** H. Feiner    **School Website:** [www.wlac.edu](http://www.wlac.edu)

**Class Hours:** M-F 8:00 – 10:50 A.M.    **9000 Overland Ave., Culver City, CA 90230**

**Location:** MSA 006 (may change)    **Office Hours:** M-F 11:00 – 11:59 A.M.

**Instructor E-mail:** [FeinerH@wlab.edu](mailto:FeinerH@wlab.edu) (Math 241 in subject area.)    **Phone 310-287-4543**

**Required 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. The 8<sup>th</sup> edition can also be bought..

**Welcome**



"Just a darn minute – yesterday you said that X equals two!"

cartoonstock.com

This semester, you will study to using your algebraic thinking skills. The goal is for you to acquire the basic trigonometric skills needed to succeed in subsequent technical classes and become more confident. The skills you learn here will help you succeed both in and out of class. However, your education is ultimately YOUR responsibility. YOU determine your level of success. Successful college students are self-motivated. Successful college students understand the importance of studying the material, coming to class prepared and practicing skills learned. YOU CAN DO IT and I'm here to help. Work with me, even when my method is different from what you learned before or what is suggested in the text. Reconcile my presentation with what you think you remember. I try to teach you understanding, not just blind memorization of rules. 😊

## 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. professor can withdraw a student for excessive absences. Failure to withdraw will result in failure of the course. All students have an Etudes account to be used.

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.

This course is designed to give students an understanding and solidification of the basics of trigonometry. To attain mastery, students must have a genuine desire to combat algebraic deficiencies. Students are on the second floor of their technical endeavor. If students think that algebra and trigonometry are irrelevant to their course of study, remember that half the jobs in the future have not yet materialized. We live in a technical society. If you are just out of high school, twenty years from now, when you have more responsibilities and less time, you may regret that you were not serious in mastering trigonometry basics. This course is UC/CSU transferable and qualifies for the honors program. At WLAC.

## 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 Angles, degrees, radians, and angle measurement
2. Right triangle trigonometry
3. Calculators and the values of the trigonometric functions of acute angles
4. Circular functions
5. Arc length and area of sector
6. Graphing and inverse functions
7. Amplitude, period, and phase shift
8. Proving trigonometric identities
9. Solving trigonometric equations
10. The laws of sines and cosines
11. Vectors, an algebraic approach
12. Complex numbers, and trigonometric forms
13. 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 assigned problems, more if needed.

Take the tests when scheduled. Your grade on the final will be substituted for a missed test. A missed test cannot be made up for any reason. Your lowest test grade will be dropped. 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.

Turn off all music and other electronic devices during testing. Clear your desk of all objects, especially phones. Move as far away as possible from the student next to you. Keep both hands on top of your desk.

The date for taking the final is fixed by the college.

You are expected to do homework from the first day on and turn it in every day. There will be a 1 point penalty per late day. Other penalties for not following the required format. Lacking Internet access or textbook is no excuse. Computers are available in the HLRC (library, first floor).

### Hints:

When answering test questions, budget your time. Ten problems solved in 50 minutes allows five minutes per question. 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.) which is turned in with your test.



## Recommended Materials

A predisposition for regular and substantive progress and a review of [my Beginning Algebra book](#).

## Required Materials

- Access to the internet for communicating on [Etudes](#).
- A scientific calculator
- One notebook for class notes and one for homework.
- #2 pencils or pens, and an eraser

## • Student Learning Outcomes (SLOs)

- Use the trig ratios and the laws of sines and cosines to solve applied problems involving triangles.

Criterion Level : At least 60% of students will achieve at least the 70% level on this SLO.  
Locate and utilize supplemental resources online and in textbooks

- Graph sinusoidal functions of real numbers and use them to model periodic processes.

Criterion Level : At least 50 % of students will achieve at least the 65% level on this SLO.

## Course Requirements and assignment guidelines

**If you have no internet access at home, or you can't get started on homework because you do not have a computer, please contact your teacher.**

**Assignments, as listed on Etudes, will be collected daily. This serves to reinforce learning:**

- **Homework:**  
Do enough problems in the sections we cover in class, as listed in Etudes. Bring to class daily. Follow instructions as outlined in module 1 of Etudes. Show your reasoning/work unless the problem is trivial. 1 point off per day for late homework.
- **Exams** (the lowest grade will be dropped, no test can be made up). Your grade on the final will be used for a missed test. Original test papers will be posted after the test. Rework all the questions and turn in the first session after the test. Solutions should be posted after the rework is turned in. No late reworks. You can earn up to 10 points for a perfect rework. Lose 1 point per rework for each criticism on the rework.(You may call the rework extra credit.)
- **Final- Warning: The final counts as three tests.**
- Bring your textbook and supplies to class every time.
- Use the **discussion board** on Etudes to communicate with each other. Each student is expected to provide two comments every week.
- Examples of posts: Errors you committed in homework, clever solutions, concepts not clear (help each other). Refrain from uninformative posts like "I agree".
- When answering test questions, budget your time. Ten problems solved in 50 minutes allows five minutes per question. Don't spend more time on the first go-around. Answer questions in order and show reasoning on scratch paper which is turned in. Identify each piece of scratch work with a problem number. A grade is adjusted in case of clerical error (check additions, etc.)

### Late Assignments

Expect penalties. No extra credit (except for test reworks). **You need to make regular and substantive progress to remain in the class.**



## Restroom emergencies while taking a test

1. Write your name on the board. Record time you leave.
2. Place your cell phone on the front desk. If you have no phone, do not leave or forfeit test completion.
3. Return within three minutes, otherwise you will be presumed to have cheated and forfeit test completion
4. Use the nearest restroom.

Grading				
Assignment Category	# of Assign.	Points Per Assignment	Total Points	% of Total Grade
Homework	Approximately 20	5	Up to 100 points	6%
Discussions	varies	varies	Up to 100 points	6%
Tests	4	200	800	50%
Final	1	600	600	38%
<b>Grand Total</b>	<b>varies</b>	<b>varies</b>	<b>1600</b>	<b>100%</b>
1441 – 1600 (90%) = A    1121 - 1440 (80%) = B    961 –1120 (70%) = C    0 - 960 (60%) = D    450 and below = F				

## Class Policies

### Attendance

Because class discussions are an integral part of this course, attendance is mandatory. Up to 4 hours of absences are allowed. After that, you could be dropped. Students are expected to attend every class meeting, to arrive on time and stay throughout the class period. 2 tardies = 1 absence. Students may be dropped from class for excessive tardiness or for failure to attend class the first day. An attendance sheet may be passed for initialing.

### Walking In and Out of Class

When you arrive to class, make sure you have used the restroom, had a chance to eat, check your messages, etc. Walking in and out is rude and disruptive. If you need to leave early, or have some other problem, you need to notify me in advance. **Any student who makes a habit of walking in and out of class may be asked to leave.**

### Preparedness

You are expected to arrive on time. You will come to each class session prepared. You will have your book, notebooks, pens/pencils, any work that is due, and you will be prepared to discuss all past assignments.

### Cell Phones, iPods, etc.



Turn them off or set to vibrate and put them away when class begins! Although it may not seem possible, you can survive without talking and texting on your cell phone, or listening to your iPod, for a little over an hour. Talking and texting on cell phones not only distract you, but they are a distraction for me and your peers. Distractions interrupt/disrupt the class and I will not tolerate interruptions. **You will be asked to leave if this occurs.**

## Contacting Me

E-mail is the best and quickest way to contact me. **If you have a problem, do not let it snowball. Contact me immediately.** Students are expected to ask questions and obtain help from instructor via email and/or during office hours.

**For more information refer to the attached link:**

<http://www.wlac.edu/Academic/College-Catalog.aspx>

## College Policies:

### Academic Integrity (Plagiarism)

In accordance with code 9803.28, **academic dishonesty is prohibited and will not be tolerated in this class.** Violations of academic integrity include, but are not limited to, the following actions: cheating on an exam, plagiarism, working together on an assignment, paper or project when the instructor has specifically stated students should not do so, submitting the same term paper to more than one instructor, or allowing another individual to assume one's identity for the purpose of enhancing one's grade.

Academic dishonesty of any type, such as cheating or knowingly furnishing false information, by a student provides grounds for disciplinary action by the instructor or college

- **Plagiarism (cheating during an exam) will result in a zero for the assignment, possible dismissal from the class and disciplinary action from the college.**



### Student Conduct

According to code 9803.15, disruption of classes or college activities is prohibited and will not be tolerated. Refer to the catalog and the Standards of Student Conduct in the Schedule of Classes for more information.

### 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 (WLAC College Catalog).

**For more information refer to the attached link:**

<http://www.wlac.edu/Academic/College-Catalog.aspx>

## Campus Resources

As stated earlier in this syllabus, **if you are having problems, don't let them snowball.** Come and talk with me and check out some of the campus resources available to you.

### **Office of Disabled Student Programs and Services (DSP&S)**

Student Services Building (SSB) 320 | (310) 287-4450.

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. DSP&S students may qualify for: priority registration, registration assistance, special parking permits, sign language interpreters and assistive technology (WLAC College Catalog).

### **Instructional Support (Tutoring) & Learning Skills Center**

Heldman Learning Resources Center (HLRC) | (310) 287-4486

Improve your reading, language, vocabulary, spelling, math fundamentals and chemistry knowledge with convenient, self-paced computer-aided courses in the Learning Skills Center. Increase your knowledge and learning success: sign up for tutoring in various college subjects (WLAC College Catalog).

### **Library Services**

Heldman Learning Resources Center (HLRC) | (310) 287-4269 & (310) 287-4486

The WLAC Library provides instruction on how to use the online catalog, periodical and research databases. In addition to a large collection of books, periodicals and videos the WLAC Library has course textbooks which students may use while in the Library. Web access is available in LIRL as well as meeting rooms. The upper floors provide a beautiful view ideal for study (WLAC College Catalog).

**For more information refer to attached link:**

<http://www.wlac.edu/Academic/College-Catalog.aspx>

**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.

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.

**Math 241 Class Schedule – Winter 2016** **8:00 a.m. – 10:50 a.m.**

**NOTE: This syllabus and class schedule are subject to change if circumstances warrant it (e.g. student performance, etc.). Expect revisions and divergences.**

Tentative schedule:

M 1/04 1.1-1.2	T 1/05: 1.3-1.5	W 1/06: 2.1-2.2	Th 1/07: 2.3-2.4	F 1/8: Test 1, 2.5
M 1/11 3.1-3.3	T 1/12: 3.4-3.5	W 1/13:, 4.1-4.4	Th 1/14: 4.5-4.7	F 1/15: Test 2, 5.1
M 1/18: Holiday	T 1/19: 5.2-5.4	W 1/20: 5.5,	Th 1/21:, 6.1-6.2	F 1/22: Test 3
M 1/25:, 6.3-6.4	T 1/26: 7.1-7.3	W 1/27: 7.4-7.5	Th 1/28: 7.6-8.1	F 1/29: Test 4
M 2/01, 8.2	T 2/02: 8.3-8.4	W 2/03: 8.5-8.6	Th 2/04: Review	F 2/05: Final

**Important Dates: (double check!)**

Last Day	To Add a Traditional Class	Jan 3, 2016 (online)
.	(in-person)	Jan 6, 2016
.	Drop a Class o W (no charge)	Jan 6, 2016
.	File Pass / No Pass	Jan 6, 2016
.	Drop a Class w/ W	Jan 29, 2016

