
Trigonometry; 3 Units SPRING 2011

Office Hour will be posted on www.mathhands.com

Room see www.mathhands.com for rooms

Instructor Francisco Javier Marquez, PhD.

Web Page www.mathhands.com

Telephone use forum or email instead

email drquijote@gmail.com

Office H207D, www.mathhands.com [mathhands chat bar]

Course Text [Online Subscription to www.mathhands.com](http://www.mathhands.com) required. **NO OTHER textbook required.**

Know your Instructor's Perspective

I do not teach for a paycheck, and I hope you are not here just for a grade. Not that there is anything wrong with working for a paycheck or taking a class just to pass and go on, but if you simply want to go through the motions and get this class out of the way, you should take a different class. We will strive for a little more... A little something that changes the way you walk.... I think they call it 'swagger'!

Questions

If you have questions, please take a moment to browse thru the answered questions on the mathhands forum. If you do not find what you are looking for, please post your question there. Collectively as a class we will answer it as soon as possible. If the question is of private matter, please email me at my gmail account.

A Little Different

If you are looking for the usual class with the usual procedures you should take a different class. I believe there is much that we [teachers] can improve on, thus business-as-usual is not good enough for me. I will make up words, I will burn the traditional books, I will re-organize the topics, I will disrespect tradition, I *may* appear unorthodox, incomprehensible to your tutor or your roommate who thinks he/she knows math, perhaps they have never really experienced the sweet taste genuine math.... in the words of Mark Twain:

"Irreverence is the champion of liberty [& progress] and its only sure defense."

There is no end to things I will do in order to deliver the math I think should be delivered in the way I think it should be done.

Course Model

The model for the course is roughly as follows. Each lesson contains 3 major components, a lecture, written homework, and a self quiz. Each component demands more of the student by design. It is advisable to skip the written homework, just watch the lecture and start the quiz, **ONLY** if you want to be confused and learn as little as possible. For best results, you should participate in all three components, in that order, **ONE** watch lectures [online or on campus], **TWO** do the written homework, **THREE** take the quizzes. At any point if you have questions, post them on the the mathhands forum.

Required

Notes, homework, lectures [online classes], quizzes, pre-tests, discussions, and grades will be delivered via internet. So you must have access to a computer on campus or elsewhere where you can print the materials. A scientific calculator may be useful as well, at times a fax or a scanner may also be needed.

Grades:

Students will take 3 midterms on campus, including a comprehensive final. The grade will be based 50% on quizzes and 50% on exams. Towards the end of the semester, at the discretion of the instructor, depending on overall class performance, the instructor may drop the lowest quiz score for each students, or lowest test score, or both.

This format is intended to provide for optimal learning and understanding specially while completing the take home quizzes, while still making it easy to earn a good grade. The idea is that any human experience is tainted

when graded. Something as pleasant as talking to a friend can become not-so-pleasant if one is *graded* on it. Thus, I believe grades are an unpleasant reality. The course format is my attempt de-emphasize grades as much as possible, and emphasize learning and enjoying mathematical ideas.

Your grade will be defined by the following:

| | | |
|-------------------|---------------------|-------------------|
| Take Home Quizzes | 14 per semester | 50% of your grade |
| In Class Exams | 3 including a final | 50% of your grade |

For an A you need over 90%, for a B you need over 80%, for a C over 68%, and for a D over 58% . Please note that the proposed dates for exams are only tentative and subject to change as needed. Any changes to the tentative schedule will be announced in class. For ONLINE students, tests will be in the evenings at San Diego Mesa College campus. Once rooms are reserved times and room number will be posted on mathhands, usually a few weeks prior to first exam.

Life has Emergencies

Life often presents us with emergencies, such as a pregnant spouse, or a pregnant stomach about to deliver.., a car accident, a health issue, a relative who passes away in a foreign country to which you must travel, etc.. etc. there are many, many, understandable reasons why you may have to miss an exam. IF you have to miss an exam, that exam may be dropped. IF by the time the final has come along and you have been fortunate enough to have had no life emergencies of such type.. then you may skip and drop the final, or take it and drop your lowest exam score. You may also drop your lowest quiz score. Dropping an exam is NOT intended to raise your grade, in other words, you can not drop one exam because you have a life emergency and drop another exam because you did bad on it. There will be no make ups.

From The President

"Nothing in the world can take the place of persistence. Talent will not; nothing is more common than unsuccessful men with talent. Genius will not; unrewarded genius is almost a proverb. Education will not; the world is full of educated derelicts. Persistence and determination alone are omnipotent. The slogan 'PRESS ON' has solved and always will solve the problems of the human race [i.e. homework]".... President Calvin Coolidge

CATALOG COURSE DESCRIPTION

MATH 104 Trigonometry 3.00 Lecture Hours, 3.00 Units Grade Only Prerequisite: MATH 096 with a grade of C or better, or equivalent, or assessment Skill Level M50. This course is a study of the numerical, analytical, and geometric properties of right and oblique triangles, of trigonometric and inverse trigonometric functions, and their applications. The course content includes right angle trigonometry, radian measure, circular functions, graphs of circular functions and their inverses, trigonometric identities, equations involving trigonometric and inverse trigonometric functions, an introduction of the complex plane, vectors and their operations, and the trigonometric form of complex numbers. This course is designed as a preparation for calculus and it is intended for the transfer student planning to major in mathematics, engineering, economics, or disciplines included in the physical or life sciences. This course meets CSU general education requirements. (FT). Associate Degree Credit & transfer to CSU and/or private colleges and universities.

Attendance: (campus classes only)

FOR ONLINE CLASSES: No records will be kept as to times logged in online. You are free to work at your pace so long as the weekly quizzes are being done. You will only need to come to campus on dates of the midterms.

Behavior& Cheating

You may be dropped from the class or receive an F for the course if you cheat. Plus, you do not learn much. Instead, learn about the Free Tutoring Center on Campus, Star Program, Bridge Program, My Office Hours, and the million other legitimate, respectful, honorable sources made available to you, so that you may get an excellent grade in the course and be proud of it. For complete list of disruptive behavior see Policy 3100.

DSPS Students who need special arrangements should feel free to provide details during my office hours.

Tentative Schedule [always check www.mathhands.com for official/latest updates etc.]

| MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
|---|---|----------------------|----------------------|--|-----------------------|--|
| Jan 24th Semester Starts | 25th | 26th | 27th | 28th | 29th | 30th 1 QUIZ DUE |
| 31st | Feb 1st | 2nd | 3rd | 4th last day/add codes last day/drop w/out "W" | 5th | 6th 2 QUIZ DUE |
| 7th | 8th | 9th | 10th | 11th | 12th | 13th 3 QUIZ DUE |
| 14th | 15th | 16th | 17th | 18th Lincoln, No Class | 19th | 20th 4 QUIZ DUE (holiday.. can turn in by tuesday) |
| 21st Washington, No Class | 22nd | 23rd | 24th | 25th | 26th | 27th 5 QUIZ DUE |
| 28th last day/ petition "pass-no-pass" | Mar 1st exam 1 (online students) | 2nd exam 1 | 3rd | 4th | 5th | 6th 6 QUIZ DUE |
| 7th | 8th | 9th | 10th | 11th | 12th | 13th 7 QUIZ DUE |
| 14th | 15th | 16th | 17th | 18th | 19th | 20th 8 QUIZ DUE |
| 21st | 22nd | 23rd | 24th | 25th | 26th | 27th 9 QUIZ DUE |
| 28th | 29th | 30th | 31st | Apr 1st last day/withdrawal | 2nd | 3rd 10 QUIZ DUE |
| 4th | 5th exam 2 (online students) | 6th exam 2 | 7th | 8th | 9th | 10th |
| 11th | 12th | 13th | 14th | 15th | 16th | 17th 11 QUIZ DUE |
| 18th spring break | 19th spring break | 20th spring break | 21st spring break | 22nd spring break | 23rd spring break | 24th spring break |
| 25th | 26th | 27th | 28th | 29th | 30th | May 1st 12 QUIZ DUE |
| 2nd | 3rd | 4th | 5th | 6th | 7th | 8th 13 QUIZ DUE |
| 9th | 10th | 11th | 12th | 13th | 14th | 15th 14 QUIZ DUE |
| 16th | 17th exam 3 (online students) | 18th exam 3 | 19th | 20th | 21st Semester Ends | 22nd |