

# Math 335, Trigonometry with College Algebra

**Instructor: Matt Nelsenador**

Course #14069, Spring 2024, 5 units

**Time:** TuTh 9:30 AM – 11:50 AM, **Location:** CRC Main Campus WIN 255

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**Message phone:** 916–286–3691, then #, then 14222

**Office hours:** MW 11:30 AM – 12:00 PM in Room LRC 201,  
TuTh 8:50 AM – 9:20 AM in Room WIN 255, or by appointment  
I am teaching this class through March 7.

**Prerequisite:** Math 120 with a C or better and Geometry with a C or better. Or equivalent skills demonstrated through the assessment process. Prerequisites are verified at enrollment. Instructors are not capable of overriding the requirement.

**Text:** Trigonometry by Larson, 10th edition. ISBN 9781337278461, Cengage.

**Description of course:** This is a full trigonometry course with algebra concepts reviewed, extended, and integrated when they are relevant to the trigonometric concepts. The trigonometric topics include right triangle trigonometry, unit circle trigonometry, graphs of trigonometric functions, proofs of trigonometric identities, solving trigonometric equations, applications of trigonometric functions (law of sines and cosines), and inverse trigonometric functions. The algebra topics include exponential and logarithmic functions, complex numbers, conic sections, the polar coordinate system, and solving equations, inequalities, and systems of equations.

## **Student Learning Outcomes:**

- \* Cite the six fundamental trigonometric functions and be able to interpret and evaluate them.
- \* Solve application problems by modeling them with appropriate functions.
- \* Graph a library of functions including trigonometric, polynomial, rational, absolute value, exponential, and logarithmic functions.
- \* Categorize types of equations, systems and inequalities and methods used to solve them.
- \* Manipulate mathematical expressions to accomplish a specific goal.

For a full list of Student Learning Outcomes, see the web site.

**Grades received are earned based on the performance standards outlined in this syllabus.**

## **Letter grades:**

Grades will be submitted by someone who is not me.

## **Grading through March 7:**

(285 points possible)

Homework: 35 points

Exams 1–2: 100 points each

Quizzes: 50 points

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**Dates to remember:**

First Day	Tuesday	1/16
Last day to drop with no notation	Sunday	1/28
Exam #1	Tuesday	2/13
Exam #2	Thursday	3/7
Spring Break	March 11 – March 17	

**If you have a conflict with a test date, please see me as soon as possible.**

**Email distribution list:** I will send group emails to the Los Rios email addresses for all of you. If you choose, you may have your Los Rios email forwarded to another email. You should regularly check your Los Rios email and/or the email that your Los Rios email gets forwarded to. You may use a non-Los-Rios email to send email to me.

**Email in general:** Please send email anytime with questions or comments. I check email once or twice per day.

**Homework:** You learn math through your right arm.\*\* Homework will be approximately weekly. (See HW schedule.) Homework will not be done online using MyMathLab. It will be problems from the book, turned in on paper. Please fold your homework vertically and write your name on the outside. Also, please staple. It's best to staple before coming to class. Please remove any paper scraps if you use notebook paper. Homework will be graded for completeness, **but you must show your work**. You may (and are encouraged) to work on homework with other students, but every student must turn in an individual assignment. Also, you are encouraged to ask HW questions in class, as time allows, and come to office hours for HW help. There will be 7 homeworks during the term through March 7, 5 points each. So there are 35 points possible from homework. Late homework will earn no credit.

**Exams:** The exams will focus on only the most recent material. On exam days, there will be review for about 45 minutes. Then the test will take place in the second half of class. The **final exam** is scheduled for two hours, and is during finals week, and will cover the entire semester. Test problems will be similar in style to problems done in class and on homework. Tests will be closed book, closed notes. You do not get a page of notes. Calculators will be allowed on a minority of problems.

Please turn off (or silence) and put away all noise-making and/or Internet devices, including phones and Internet watches. Also, students are not allowed to leave the room during an exam. If you leave the room, then you are done. Please be aware of this rule as you prepare for the exams.

Make-up exams will be given only for serious and compelling reasons (illness, jury duty, military duty, your wedding, etc. Please provide appropriate documentation.) If you are feeling ill before a test starts, let me know before the test starts. Additionally, make-up exams are allowed only if I am notified *before* the exam is given. Email works well. Makeup exams, if allowed, will probably be given the following Saturday, at 10AM, at Pocket-Greenhaven Library, 7335 Gloria Drive, Sacramento CA 95831.

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\*\* or your left arm if you are left-handed.

**Quizzes:** Quizzes will take place approximately daily, at the beginning of the class. Don't be late! There will be 10 quizzes during the term through March 7, 5 points each. So there are 50 points possible from quizzes.

**Calculators** will be allowed on some (a minority of) test and quiz problems. You will need an off-line calculator (not your phone) for this class, and you will want to bring it to class every day. There's a lot of trig you should know by yourself, but trig also has some terrific applications where a calculator is very helpful. I will attempt to classify the problems for which you will and will not need calculators. Please let me know if this ever becomes unclear to you. You do not need a graphing calculator. A simple scientific calculator is fine.

**Progress reports:** Progress reports will be provided with each graded exam. But the grading scheme is pretty simple, so you can probably keep track yourself. Divide the total earned points on graded assignments by the total points possible so far to get your current percent, and compare to the percents on page one of this syllabus. If you want to, you can double-check with me at any time by sending email and requesting this information.

**Devices:** Please do not operate your phone or Smartwatch during class. These devices are far too small to use for taking notes. Please silence your devices before entering the room, and put the phones away. Please do not use larger electronic devices for non-math activities.

**Masks:** If there is a mask requirement in place for indoor spaces on campus, this rule will be enforced by me. Nose and mouth. This also means there would be no eating or drinking in the classroom.

**Attendance:** Coming to class is a really good idea in general. I totally recommend it. But for the love of all that we hold dear, please stay home if you are sick. I will provide you with printed notes as long as you do not abuse this privilege.

**Tardiness** is disruptive to those students who have made the commitment to come to class on time, every day. I understand if you are late once or twice. Things happen. But I will speak individually to students who are chronically late (more than once per month). If you arrive late or re-enter class, please silently go behind the rest of the students to find a seat. If you leave during class, please silently go behind the rest of the students as you leave.

**Noise-related Behavior:**

- \* If you are going to cough or sneeze, please do it quietly.
- \* If you are going to bless someone's sneeze, please make sure that person is your neighbor. (If not, let the sneezer's neighbor have the honor. Give everyone a chance.)
- \* If you are going to crack your knuckles or any other body part,

# DON'T!

**Much** of the first few classes will be spent on logistical items, including but not limited to, taking roll, adding and dropping students, and getting to know each other. Please be patient. The math will start soon! **Also note that** this is a **5-unit class**. By college standards, the course requires 2 hours of outside work per week per unit. For this class, you are expected to work **10 hours per week** outside of class.

**Another quick note:** Bullying, intimidating, or abusing another student is not allowed and will not be tolerated.

**DSPS forms:** If you have an accommodation sheet, please notify me as soon as possible.

**Cheating policy:** Don't do it! Cheating will not be tolerated. Cheating includes, but is not limited to, copying during a test, using or providing unauthorized material (including a phone or online device, or a calculator for non-calculator problems) during a test, taking a test for someone else, allowing someone to take a test for you, talking during a test, altering a test and submitting it to be regraded, providing false information to an instructor or college official, forging my signature, etc. "Test" can mean test, quiz, or final. Students found guilty of cheating will be given a zero on that assignment (first time) or an F for the class (second time.) Cheating also includes copying homework answers from the book; sometimes it is clear that something has been copied. Also, no sharing calculators during exams or quizzes. This is cheating too, by both individuals.

**You are a now professional student**, and everyone benefits when we all act professionally. Behavior that disrupts the learning environment during class or in the classroom **will not be tolerated**. Repeat offenders may be asked to leave class for that day. Disruptive behavior includes, but is not limited to: using an electronic device or other toy in the classroom, failing to follow any mask rule for indoor spaces on campus, chatting with your neighbor while I am talking, any other unnecessary noise, obnoxious or disrespectful chatter, such as "can you say that in English" or "are you really a teacher" or "this is useless" or "this class is the biggest joke" or "this is ridiculous" or similar, using obscene or inappropriate language inside the classroom, being late excessively often, excessive trips in and out of the room, walking in front of other students as you move in or out the room during lecture, and personal hygiene, including nail work, eye work, ear work, etc.

**Suggestions for success:**

**Come to class, on time, every day.**

**Do your homework. Don't get behind.**

Read and keep this syllabus.

Study in groups, if that's your thing.

Read the book. There might be something really neat!

Write down and/or remember the things I say in class.

Don't divide by zero. Seriously. Don't do it.

**Food and drink rules:**

1) Nothing loud

2) No spills

3) Nothing comes out of your mouth

4) Absolutely no corn nuts!

**Other expectations:**

Ask a question if there's something you don't understand. I will answer your question in class or over email. If you don't ask, I don't know there's a problem. Please! Ask!

Seek additional help if you need it. Investigate your options at the Math Center on Main Campus and/or Elk Grove Center and/or online tutoring. Consider forming a study group with other students in class. Ask questions during lecture and come to my office hours. (Free! Cheaper than a tutor.)

Work hard, and you'll probably pass the class.