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**Meeting Day and Times:** M,W 2:30 – 4:20, Room 2602

**CRN:** 30512

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**COURSE DESCRIPTION AND OBJECTIVES:** Welcome to Trigonometry! In this course, you will learn about trigonometry using both right triangle and circular relationships. The course is designed to prepare you for studying physics and for further study in the mathematics required in the sciences and technical areas. Specific topics include degree and radian measure, right and oblique triangle relationships and applications, identities, solving equations, graphs of periodic functions, inverse trigonometric functions and graphs, vectors, trigonometric form of complex numbers, and polar coordinates and graphs.

#### STUDENT LEARNING OUTCOMES

1. Solve a trigonometric equation.
2. Use trigonometric identities to simplify an expression involving trigonometric functions.
3. Demonstrate a graphical understanding of the behavior of the circular functions.
4. Use trigonometry to solve applied problems.
5. Determine the value of an inverse trigonometric function.
6. Use polar representations to perform operations with complex numbers.

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**PREREQUISITE:** Math 127 (**Intermediate Algebra**) or an equivalent course, with a C or better, and one year of high school geometry, with a C or better. You should have a working knowledge of the basic ideas of algebra, including solving equations of all sorts (linear, quadratic, rational, radical), and working with functions (identifying, graphing, finding inverses).

Also, you'll get the most from this class (and find it easier) if you've already had Math 242, **Precalculus Algebra**.

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**INSTRUCTOR:** Peggy Wright

**Instructor website:** [www.wrightmath.info](http://www.wrightmath.info). Course material (notes, test keys, etc.) will be posted on my website.

**Canvas:** [cuesta.instructure.com](http://cuesta.instructure.com) Your grades will be posted on Canvas. Be sure to check that the grades are accurate and let me know ASAP if there's an error so I can fix it!

**Office:** Room 2708 **Phone:** 546 - 3100 ext. 2586 **email:** [pwright@cuesta.edu](mailto:pwright@cuesta.edu)

**Math Lab Hours:** Mon, Wed 12:30 – 1:30 pm

**Office Hours:** Mon, Wed 1:30 – 2:00 pm; Tues, Thurs 1:30 – 2:30 pm; also by appointment

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#### REQUIRED COURSE MATERIALS:

**Textbook:** *Algebra and Trigonometry* from OpenStax, ISBN 1938168372, [www.openstax.org/details/algebra-and-trigonometry](http://www.openstax.org/details/algebra-and-trigonometry) Good news: your textbook for this class is available for free online, in web view, and PDF format! You can also purchase a print version, if you prefer, from OpenStax on Amazon.com.

We will be covering chapters 7 – 10, with some additional sections for review added in.

**Calculator:** You'll need (required) a scientific calculator for this course. You won't need to have a graphing calculator, but you will be using online graphing tools as part of the course. Graphing calculators will not be allowed on exams; only scientific calculators may be used.

**Pencil!** All work turned in for credit must be done in pencil only.

**Electronics:** You may bring your phone, laptop, and/or tablet to class. You may not use your phone for anything other than accessing the internet when appropriate (I'll let you know). Texting, listening to music, etc., is not allowed in class. Please do not get up and leave class to answer calls since this is distracting to other students.

**GRADING:** Your percent score in the course will be figured out of 650 total points, with point values as follows:

Exams (4, each 100 pts))	400 pts
Homework (4, each 15 pts)	60 pts
Quizzes/Group Work	40 pts
<u>Final exam</u>	<u>150 pts</u>
Total points possible	650 pts

Your grades will be posted on Canvas. Be sure to check that the grades are accurate and let me know ASAP if there's an error so I can fix it!

The grade you earn in the course will be based on your overall percentage score, with the following percent ranges and grades:

93 – 100% A	90 – 93% A-	86 – 89% B+
80 – 85% B	76 – 79% C+	70 – 75 % C
55 – 69% D	below 55% F	

Borderline grades (89 – 89.99%, 79 – 79.99%, 69 – 69.99%) will possibly be graded as an A-, B-, or C based on overall factors in the course (your attendance, participation, improvement, final exam score, etc..).

**EXAMS:** There will be 4 in-class exams during the semester. The keys to the old exams are posted on my website.

**FINAL EXAM:** The final exam will be cumulative. Don't let this intimidate you! The material in the course keeps building on the same core concepts so we will effectively be reviewing for the final throughout the entire course. **The percent score on the final will replace the lowest test score (including a missed exam).**

*Final Exam Day and Time: Wed, May 22, 2019 2:15 – 4:15 pm*

**HOMEWORK:** Problems from the text will be given on an assignment sheet (I'll pass it out in class...you don't have to print it!). Homework is due on the day of the test.

You will "self-assess" your homework, meaning you will check your own answers, correct the problems as needed, and score each assignment based on the number of problems completed (with correct/corrected answers). Scoring will be based on completion of work, with checked and corrected answers. I will spot check your assessment and if you've been accurate, that's great! However, if you give yourself credit for problems you haven't done, or haven't done correctly, or haven't shown work on then the assignment will lose 1 point for each such problem. Please be accurate and honest in your grading.

**CLASSROOM CONDUCT/ACADEMIC HONESTY:** One word sums it up: Respect. Be respectful to and insist on being respected by anyone and everyone in class. Keep your comments positive, come to class on time, don't wander in and out of class, ESPECIALLY don't leave early unless you've cleared it with me beforehand, use your smart phone for class activities only not for personal business, leave your earbuds in your backpack or pocket. Etc.

**Policy On Cheating:** Again, have respect, this time for yourself. Don't let yourself down by selling your integrity for a few points on an exam or an assignment. Academic consequences for cheating can get ugly, ranging from receiving no credit on homework/ quiz/exam in question, to being subjected to academic discipline, to having an annotation put on your transcript labeling you as academically dishonest, to dismissal from the college.

**POLICY ON MAKE-UPS** (when life gets in the way...)

**EXAMS:** No make-up exams will be given except possibly in the case of a genuine emergency, in which case you must contact me on the day of the test or before.

**HOMEWORK:** Homework assignments turned in after the due date (the day of the exam) will lose 1 point of credit for each day late, up to a maximum of 5 points off. For best results, do the homework before the test!

**QUIZZES:** No make-up quizzes will be given, but the lowest score will be dropped.

**ATTENDANCE/DROP POLICY:** Plan on coming to class every day on the schedule...I'll make it worth your time! I've had students who were doing well, started missing class, then just drifted away and either did much more poorly than they could have or just gave up as the material piled up and became an insurmountable obstacle to them. Because of this, **attendance is actually mandatory** (this isn't a Distance Learning, online course), and, trust me, regular attendance will keep you motivated and on top of the material.

If you have more than 2 absences during the semester, you may be dropped--please send me an email if you must be absent for any reason. Be sure to get at least one other student's phone number so you can contact that person in the event that you miss class and need info about what went on.

**You are responsible for anything covered in class** (such as changes in test dates, worksheets distributed in class, additional homework assignments, etc.). The day you come back after an absence, you should check with me on what was covered and whether there were any handouts (come early to class!).

Finally, it is the student's responsibility to drop a class he/she is no longer attending.

*Last day to drop without a "W": 2/3/2019; Last day to drop with a "W": 4/21/2019*

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**LATE ADDS:** If you are adding and have missed any of the first days of class, **then you are responsible for catching up on all missed material** and all information given in the class. Also, please add the course as soon as you receive an add code

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### **STUDENTS WITH DISABILITIES**

If you have a learning or physical disability and might need accommodations in this class, please contact *Disabled Student Program & Services* in Building 3300 as soon as possible to ensure that you receive the accommodations you need. I encourage you to come talk to me about any questions, concerns or needs that you have.... I'd like to help!

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**HELP!** There are many resources available to help you to be successful in this class, such as...

**Office hours:** Please come to see me during office hours and/or in the Math Lab for assistance with anything you're having difficulty with (homework problems, a concept you're not understanding, test-taking strategies, etc.)

#### **Tutors:**

**One-on-one:** Tutors (free) are available in the Tutoring Center for one-on-one or group tutoring. Sign up early!

**Private tutors:** The tutoring center also keeps a list of private tutors for hire.

**Drop-In Math Lab Room 3401:** This is a great place to do your homework and get help if you get stuck. At times it gets very busy there, but quite often there are more tutors than students! The tutors are friendly and eager to help!

**Study Groups:** Form a study group early and get together regularly! You can message other students on Canvas (or the entire class) to look for study partners or just tap your group-work partners in class.