Math 4A-52052 (Online)
Trigonometry

Spring 2024

Course Syllabus

Hi, and welcome to Math 4A, I want to start by letting you know that I am here to support you as you go through this course. You will be challenged in this class, but you will be given multiple opportunities to show mastery as well as support from your instructor. I want to welcome ALL of you right now to reach out to me whenever you have a question, or need help. College is NOT meant to be done alone. To support you in this class you will have video lessons, you can form study groups with each other (I recommend forming study groups), the math center, and my office hours and you can always email me so that we can meet on zoom.

Instructor

Veronica Andrade

Office

Math and Science room 131

Office Hours

In Person:
Math and Science Building room 131
Mondays and Wednesdays 9:00 – 9:50
Thursdays 1:00 – 2:50

On Zoom:
Fridays 9:00 – 9:50
https://scccd.zoom.us/j/84819120665

Class Times

This is an asynchronous class which means that we will NOT meet at a regular time. You will watch video lessons on your own time and complete the assignments on your own time, following the due dates set on CANVAS and in MyMathLab.

Email

maria.andrade-romeo@reedleycollege.edu

Prerequisites

none

Course Description

The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and introduction to vectors.

Text and Required Material

1. Lial, Hornsby, Schneider & Daniels "Trigonometry" 11th edition MyMathLab Access Card. The best and cheapest way to purchase the access card is with a credit card through CANVAS. You do not have to purchase the actual paper textbook, It is mandatory to purchase only the 18-week MyMathLab Access Card and this comes with a digital copy of the book.
2. Scientific Calculator (sin, cos, tan keys are necessary).
3. Straight edge (ruler)
4. Printing Paper (I prefer you do math on non-lined paper)
5. Graph paper, this is mandatory for Chapter 4

Reasons for which you may be dropped

I don't like to drop students but from time to time I have had to, here are the reasons for which you may be dropped:

1. You may be dropped if you have not completed 1.1, 1.2 and 1.3 by 1/16/24
2. You may be dropped if you have not completed the Unit 1 homework and test by 1/25/24
3. You may be dropped if you have not completed the Unit 1, and Unit 2 homework and tests by 3/1/24

NOTE: If you want to drop the class, make sure that you do so on Self-Service, do not depend on me to drop you.

Important Dates

- 1/09/2024- Make sure to sign up for MyMathLab (do NOT pay by this date, you may use the 14-day free trial first).
- 1/22/2024- Make sure to pay for MyMathLab by this date. You only need the 18-week access code. It should be around $80 if purchased online. Purchase the access code before your free trial expires.
- 5/9/2024 – Final Exam DUE (The final is an opportunity to retake Unit 2 OR Unit 3 Test (But NOT both))
- 5/14/2024 – Last Day to work in MyMathLab
- 1/19 drop deadline to receive a full refund
- 1/26 drop deadline to avoid a "W" on your transcripts (1/28 on self-service)
- 3/8 Final drop deadline

See the Calendar posted under Unit 0 in CANVAS, for more important dates.

Grading

Grade	Range

A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

Grade Category	Weight
Exams: Tests Only	100%

YOUR GRADE IS THE GRADE ON THE CANVAS GRADEBOOK (NOT THE GRADE IN MYMATHLAB) AND ONLY TESTS COUNT TOWARDS YOUR GRADE.

Tests

You may not give or receive help on tests. Tests will make up 100% of your grade. Unit 1, Unit 4 and Unit 5 tests can be taken up to three times on your own time. But do not retake a test right after you have taken that test because students tend to do about the same. Instead go back and study, you can also access the tests that you have already taken and study those through MyMathLab. The highest score for each test will be kept. Units 2 and 3 can also be retaken but I have to grade those myself so you have to follow the deadlines on the calendar. You MUST submit Unit 2 and Unit 3 homework and tests ON TIME in order for me to grade them. This means that you must complete your homework ON TIME so that I can grade it on time for you to make corrections and submit your test. The final exam will also be one last opportunity to retake either Unit 2 or Unit 3 test (But NOT both).

Homework

Homework WILL NOT be part of your grade but IT IS MANDATORY you are required to do the homework to help you prepare for the exam (unit test). You will not have access to the unit tests in MyMathLab until you complete all of the unit homework with at least a 75%. Your Tests that you submit through CANVAS will not be graded until the homework requirement is met. I don't want you to do the homework to "chase" points, rather I want you to focus on the homework to understand the material. Homework might not be part of your grade but you are being tested on your understanding of this material on the unit tests. Some homework will be completed in MyMathLab where you will have immediate results and some other homework will be completed on CANVAS it is all mandatory and you have to complete each assignment with at least 75% on each. The homework in CANVAS will be graded by me, submit it on time so that I can grade it on time for you to turn in your test.

Instruction

I will post the readings and video lessons in CANVAS, please go to the CANVAS homepage and click on the sections to do the readings, watch the videos and take notes. The assignments will also be on CANVAS you can also access some of the assignments by clicking on "MyLab and Mastering" on the left hand side in CANVAS and then click on "Open MyLab and Mastering" to go directly to the Pearson website. Pearson will be linked to CANVAS and all of the work that you do in MyMathLab will be sent to the CANVAS gradebook.

Students with Disabilities

If you have any special needs addressed by the American Disability Act and need course materials in alternate modes, or alternate testing circumstances, do notify me as soon as possible. Upon notification, immediate reasonable efforts will be made to accommodate your special needs.

Student Learning Outcomes

Upon completion of this course, students will be able to:

1. Provide and analyze graphs of trigonometric functions.
2. Apply trigonometric techniques to solve problems in real world contexts.
3. Derive, use and prove trigonometric properties and identities.
4. Produce solutions to equations using skills developed in trigonometry.

Course Objectives

In the process of completing the course, the student will:

1. Identify special triangles and their related angle and side measures;
2. Evaluate the trigonometric function of an angle in degree and radian measure;
3. Manipulate and simplify a trigonometric expression;
4. Solve trigonometric equations, triangles, and applications;
5. Graph the basic trigonometric functions and apply changes in period, phase and amplitude to generate new graphs;
6. Evaluate and graph inverse trigonometric functions;
7. Prove trigonometric identities;
8. Convert between polar and rectangular coordinates and equations;
9. Graph polar equations;
10. Calculate powers and roots of complex numbers using DeMoivre's Theorem
11. Represent a vector (a quantity with magnitude and direction) in the form and ai+bj

Academic Dishonesty

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights.
Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on the particular examination, paper, project, or assignment in

question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

Disclaimer

Ms. Andrade-Romeo reserves the right to make changes to the syllabus with whole class notificatio