Math 4A-52054 (In Person)
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.

General Information

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

In room CCI 201
Tuesdays and Thursdays 11:00 AM – 12:50 PM

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.
- 5/14/2024 – Final Exam (The final is an opportunity to retake up to three of the five exams)
- 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%

Weights

Grade Category	Weight
Tests	95%
Attendance	5%

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 95% of your grade. YOU WILL NOT BE ALLOWED TO TAKE A UNIT TEST IF YOU DO NOT FIRST COMPLETE EACH ASSIGNMENT FOR THAT UNIT WITH A SCORE OF LEAST 75% OR BETTER. You will be given at least two opportunities to take each test but if you do not have your homework completed before the test day you will lose that opportunity to take that test. It is very important to stay up to date on your assignments to pass this class.

Homework

Homework WILL NOT be part of your grade but IT IS MANDATORY you are required to do the homework (with at least 75% on each assignment) in order to take the test for that unit.

Instruction

I will post the readings and video lessons in CANVAS. You are required to watch the video lessons before attending class, please follow the calendar under Unit 0. In class we will focus on practicing problems, there will be some instruction but our focus will be on practicing what you learned in the videos.

Attendance

Attendance is part of your grade. It will make up 5% of your total grade. I will take attendance on CANVAS at the beginning of each class meeting and if you are not in your seat at the beginning you will be marked absent. After I take attendance I will set a sign-in sheet for those that come in late. Please sign in if you are late. You also need to sign-out if you leave early. You will receive half credit for the day if you arrive late or leave early.

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