

Reedley College Spring 2019

Math-4A-59923, Trigonometry Syllabus

MTWTH 10:00 - 10:50 FEM 4

Instructor: Veronica Andrade-Romeo

Office: FEM 4A

Office Hours: Monday and Wednesday 11:00 - 11:50, and Fridays 10:00 - 11:50 if these hours don't work please email me and we'll find a time to meet.

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

Lial, Hornsby, Schneider & Daniels "Trigonometry" 11th Edition

You have two options 1) purchase the MyMathLab Access Card **only** or 2) Purchase the textbook + MyMathLab Access Card

Required Material:

- Lial, Hornsby, Schneider & Daniels "Trigonometry" MyMathLab Access Card. The best and cheapest way to purchase the access card is with a credit card through CANVAS. You may also purchase it at the bookstore but it will cost a little more.
- Scientific Calculator (sin, cos, tan keys are necessary). You must bring it to class every day. It will count as part of your participation.

**(I may drop students at any time starting on Thursday 1/17/19 through 3/17/19)
Here are the reasons why you may be dropped:**

- **You may be dropped if** you have not signed up for MyMathLab by Thursday 1/17/18. Whether you purchase the access code online or at the bookstore You **MUST** register through CANVAS (I do not give you a course ID). You must either purchase it by 1/17/19 or you may start their 14-day free trial. If you have trouble registering, you may go to the Math Center anyone in a vest can help just tell them that you have to register through CANVAS or you can come into my office hours. It is crucial that you figure this out to avoid being dropped, I will show you how to do this during class.
- **You may be dropped if** You have 2 or more absences by January 24, 2019
- **You may be dropped if** you have 3 or more absences by January 31, 2019
- **You may be dropped if** You have 6 or more absences by March 14, 2019.
- **You may be dropped if** You do not have a **PAID** subscription to MyStatLab by January 24, 2019. Please communicate with me if you cannot purchase the access code by January 24, 2019.

Note: If you want to drop the class, make sure you do so on Webadvisor, do not depend on me to drop you.

Absences and tardies:

- There are no excused absences, emailing me or calling me does not excuse an absence.
- If you arrive after I take attendance but less than 20 minutes late you will be marked tardy, or if you leave less than 20 minutes early you will be marked tardy. (Make sur to write your name on the board if you arrive tardy so that I remember to change your status from absent to tardy)
- Every 3 tardies count as an absence and it will count towards being dropped and towards your participation grade.
- If you arrive more than or equal to 20 minutes late or leave more than or equal to 20 minutes early then you will be marked absent and it counts as an absence towards being dropped and towards your participation grade. (If you arrive this late, you do not have to write your name on the board, since I will not change your status).

Classroom Behavior:

1. Absolutely no cell phones. You may lose your participation points for the day and you may be dismissed. Unless we are using them as part of the lesson.
2. Do not pack up early.
3. In general, be considerate. We are here to learn.
4. Be on time.

Important Dates:

1/25/2019: Census-Last Day to ADD/Drop a full-term class
2/1/2019: Last day to drop to avoid a "W"
3/15/2019: Final Drop Deadline
5/22/2019: Finals Exam from 10:00 - 11:50 in FEM 4

Grading:

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

Tests: 70% **NO RETAKES and NO MAKE-UPS**

Homework 20%

Quizzes: 5% **NO RETAKES AND NO MAKE-UPS, If I give an in-class pop-quiz and you are not there to take it you may not make it up or retake it.**

Participation: 5% (follow instructions and participate in each class session)

Your grade is the grade on CANVAS (your grade is NOT the grade on MyMathLab)

Testing

Follow directions, be prompt, NO CELL PHONES allowed, Testing must be completed in a single sitting you may not leave the room. The SCCC policy regarding ACADEMIC DISHONESTY will be applied when appropriate.

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.

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, it is your responsibility to notify me as soon as possible. Upon notification, immediate reasonable efforts will be made to accommodate your special needs.

Please refer to SCCCD policies for guidance on all matters relating to this course

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. Represent a vector (a quantity with magnitude and direction) in the form and $a_i + b_j$

Course Outline:

1. Rectangular coordinates, angles and circular/radian measure;
2. Definitions of the six trigonometric functions according to the right triangle, the unit circle, and the rectangular coordinate system;
3. Applications of the right triangle;
4. Simplification of trigonometric expressions;
5. Proofs of trigonometric identities;
6. Graphs of trigonometric functions: period, amplitude, phase shift, asymptotes;
7. Inverse trigonometric functions and their graphs;
8. Trigonometric equations;
9. Solving Triangles: Law of Sines and Law of Cosines;
10. Polar coordinates and equations; and
11. Introduction to vectors

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