

COURSE SYLLABUS

CONTACT INFORMATION

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Office Hours:

M-Th 11:00am-12:00pm

F 10:00-11:00am (virtual)

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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.

Advisories: ENGL 125 and 126

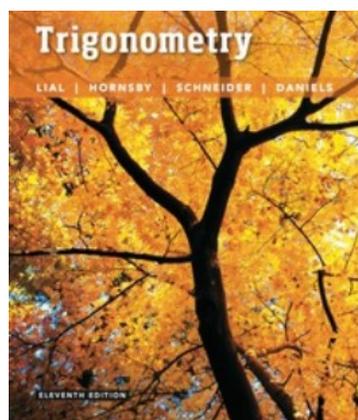
Prerequisites: Math 102 and 103 or equivalent

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 Materials



- ⇒ My Math Lab access code
- ⇒ Graphing Calculator (TI 83 or TI 84 recommended)
- ⇒ Lial, M., et al. *Trigonometry*, 10 ed. Pearson, 2012 (optional)

Recommended Apps/Websites

- ⇒ iTunesU
- ⇒ Khan Academy
- ⇒ Desmos

Course Objectives

In the process of completing this course, students 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; and
11. Represent a vector (a quantity with magnitude and direction) in the form $a_i + b_j$.



Attendance and Participation

Regular class attendance is expected. It is your responsibility to withdraw from the class with Admissions and Records if you find that you can no longer attend or possibly receive an F.

You **may** be dropped for excessive tardiness or after 4 absences.

If you reach 8 absences, for **any reason**, you will be dropped from the class.

Being an active participant in class is key to your success. Therefore, If you are tardy, leave early, or leave class and return later, this will affect your attendance count, as will doing unrelated work, homework or using electronic devices during class. (i.e. cell phones, MP3 players, etc.)

You will be considered late if you arrive after attendance has been taken.

Each tardy is equal to one half of an absence, i.e. 2 tardies = 1 absence

If you do not sign the attendance sheet you will likely be marked absent.

“I have discovered a truly marvelous proof of this, which however the margin is not large enough to contain.”

-Pierre de Fermat (referring to his ‘last theorem’)

Assignments & Exams

In-Class Activities, Worksheets and Practice Exams

Periodically you will be working in groups on in-class activities that will be required to be turned in at the end of class or at the next class meeting for credit. All work falling under this category cannot be made up if you are absent for any reason.

Homework

Homework is assigned on Thursday each week and is

due on My Math Lab the following Wednesday. To use My Math Lab you will need to purchase an access code. **You are not required to purchase a textbook for this course.**

Late Work

Turning an assignment in late for **any reason** will result in a 40% point reduction. No late homework will be accepted after the final exam. Late extra credit assignments will not be accepted.

Tests

There will be four tests and a cumulative final exam in this course. If absent on the day of an exam for any reason, **no make-ups will be allowed.** If you have a legitimate reason for missing the exam then your missed exam score will be replaced with your final exam percentage. Being unprepared for the exam is not a legitimate excuse.

Academic Honesty



Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors.

Academic dishonesty in any form is a very serious offense and will incur serious consequences, including but not limited to receiving a grade of F on the assignment or in the course. For the college policy on cheating and plagiarism see the college catalog.

Grading

Grading Scale:

A	89.5% - above
B	79.5%-89.4%
C	69.5%-79.4%
D	59.5%-69.4%
F	59.4% and below

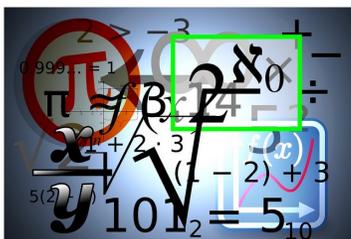
Grading:

50% Tests
20% Final Exam
20% Homework
10% In-Class Activities, Worksheets and Practice Exams

Finding your Grade:

I will be tracking your grades and attendance on Canvas. I strongly recommend you check it regularly for accuracy so there are no surprises at the end of the semester.

Tip: Use the 'What if' option to see how possible assignment scores will effect your grade.



“Do not worry to much about your difficulties in mathematics, I can assure you that mine are still greater.” - Albert Einstein

Resources

Other Students in Class

Successful students form study groups of 3 to 5 students and work together outside of class. In addition, it is helpful to have a classmate you can call to get missed work and notes if you are absent.

Your Instructor

I will be happy to help you at the beginning of class or in my office. My office hours are listed at the beginning of this syllabus. If you cannot come during my office hours you can make an appointment to come at a different time. You may also ask questions through email, Remind and Twitter.

Math Study Center, FEM 1

The STEM Math Study Center is a free tutoring resource available to all Reedley College math students. The MSC offers drop-in tutoring facilitated by our math faculty and well-qualified student tutors. The MSC has 20 computers and online access available to students with online math homework.

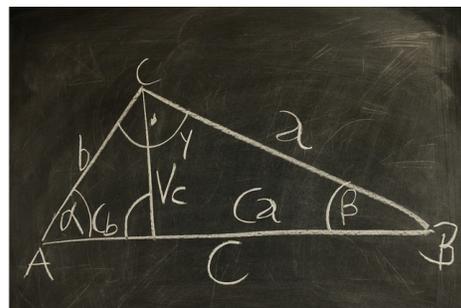
Open M-Th 8am-4pm, F 8am-12pm

Accommodations for Students with Disabilities

Disabled Students Programs & Services (DSP&S) is designed to provide specialized services and accommodations that assist students with documented physical, psychological and learning disabilities reach their maximum potential while achieving their educational goals. Staff specialists interact with all areas of the campus to eliminate physical, academic and attitudinal barriers. Disabled Stu-

dents Programs & Services takes a personal interest in meeting the special needs of students with disabilities.

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic tex, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.





Important Dates *

August 14	(M)	Start of Fall 2017 semester
August 14 - October 13	(M-F)	Short-term classes, first nine weeks
August 25	(F)	Last day to drop a Fall 2017 full-term class for full refund
August 25	(F)	Last day to register for a Fall 2017 full-term class in person
September 1	(F)	Last day to drop a Fall 2017 full-term class to avoid a "W" in person
September 3	(SU)	Last day to drop a Fall 2017 full-term class to avoid a "W" on WebAdvisor
September 4	(M)	Labor Day Holiday (no classes held, campus closed)
September 8	(F)	Last day to change a Fall 2017 class to/from Pass/No-Pass grading basis
October 13	(F)	Last Day to drop a full-term class (letter grades assigned after this date)
October 16 - December 15	(M-F)	Short-Term classes, second nine weeks
November 10	(F)	Veterans Day observed (no classes held, campus open)
November 23-24	(Th-F)	Thanksgiving holiday (no classes held, campus closed)
December 11-15	(M-F)	Fall 2017 final exams week
December 15	(F)	End of Fall 2017 semester



Tentative Calendar

AUGUST

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14* Semester Begins	15 1.1	16 1.2	17 1.3	18	19
20	21 1.3	22 1.4	23 2.1	24 2.1	25*	26
27	28 2.2	29 2.3	30 2.4	31 2.5		

SEPTEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1*	2
3*	4 No School	5 2.5	6 Review	7 Exam 1	8*	9
10	11 3.1	12 3.2	13 3.3	14 3.3	15	16
17	18 3.4	19 4.1	20 4.1	21 4.2	22	23
24	25 4.3	26 4.4	27 4.5	28 Review	29	30

OCTOBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Exam 2	3 5.1	4 5.2	5 5.2	6	7
8	9 5.3	10 5.3	11 5.4	12 5.5	13* <i>Drop Deadline</i>	14
15	16 5.6	17 6.1	18 6.1	19 Review	20	21
22	23 Exam 3	24 6.2	25 6.2	26 6.3	27	28
29	30 6.3	31 6.4				

NOVEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 6.4	2 7.1	3	4
5	6 7.2	7 7.3	8 7.3	9 7.4	10 No School	11
12	13 7.4	14 Review	15 Exam 4	16 8.1	17	18
19	20 8.1	21 8.2	22 8.2	23 No School	24 No School	25
26	27 8.3	28 8.3	29 8.4	30 8.4		

DECEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4 8.5	5 8.5	6 Review	7 Review	8	9
10	11 Finals Week	12	13 Final Exam 10-11:50am	14	15 End of the Semester	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30