Reedley College
Math 4A Online
Syllabus

Course: Math 4A Trigonometry (Online)
Schedule number: 78066
Instructor: R. Reimer
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Phone: 638-3641 ext. 3355
Office Hours: By Appointment
Website: http://www.webassign.net
Enrollment code: Reedley 5189 2925
Textbook: Trigonometry Sixth Edition, Charles P. McKeague
ISBN 978-0-495-47521-7 Text and Access Code
ISBN 978-0-495-10835-1 Text Only
ISBN 978-0-495-38258-4 Solutions Manuel

Important dates:

June 15	(T)	Orientation Meeting
June 21	(Su)	Deadline to log onto Webassign
July 1	(Th)	Midterm Exam 6pm at Reedley College in FEM 4E
July 9	(F)	Last day to drop an 8 week summer course
July 15	(Th)	Midterm Exam 6pm at Reedley College in FEM 4E
August 6	(F)	Final Exam 6pm at reedley College in FEM 4E

Course Description: This course will study angles, trigonometric and inverse trigonometric functions, right and oblique triangles, graphs, identities, trigonometric equations, vectors, polar coordinates, De Moivre's Theorem, and applications.

Course Objectives:
A. Apply the trigonometric functions to solve for the part of a triangle.
B. Evaluate trigonometric functions of both acute and obtuse angles.
C. Solve problems involving vectors.
D. Apply the concept of radian measure to circular functions.
E. Graph the circular functions.
F. Apply trigonometric identities to algebraic expressions.
G. Solve trigonometric equations.
H. Apply the concept of polar coordinates to algebraic operations and graphs.
I. Apply computing and graphing technology.

Course Outcomes:
A. Identify the appropriate function to use and then apply it to solve for the sides or angles of a triangle.

B. Find both approximate and exact trigonometric function values of both acute and obtuse angles through the use of reference angles and special angle values.
C. Set up, sketch and analyze vector application problems
D. Convert angles from degree measure to radian measure and vice-versa; evaluate trigonometric functions of angles in radian measure and apply the concept of radian measure to application problems involving linear and angular velocity.
E. Graph the fundamental graphs of sine, cosine and tangent, identifying their characteristics such as amplitude, period and phase shifts from their equations.
F. Apply the trigonometric identities such as the Pythagorean, sum and difference, cofunction, double angle and half angle identities to algebraic expressions to either verify or simplify the expression.
G. Solve trigonometric equations through the use of inverse trigonometric functions.
H. Apply the concept of polar coordinates to graphing, complex numbers and binomial expansion.
I. Use graphing calculator and/or computer technology to evaluate trigonometric functions and analyze graphs of the trigonometric functions.

Communication: A blackboard website will be maintained for this course. Announcements and documents will be distributed via Blackboard. Check it daily. Please use the discussion board in Blackboard to as math related questions so everyone can have access and participate in the discussion. The web address is:
http://blackboard.reedleycollege.edu

User Name = *Your student I.D. number*
Password = *Your student I.D. number*

Discussion Board: Please feel free to use the discussion board in Blackboard to post questions and respond to each others questions and comments. Please limit the discussion to items related to this class only. I will check this site daily. Here are a few examples of how we can deal with math symbols in a discussion board...

X^3 means x^3

2/3 means $\dfrac{2}{3}$

Sqrt5 means $\sqrt{5}$

Abs(-6) means $\left|-6\right|$

Homework: There will be both online and written homework. Online homework refers to homework assignments done in WebAssign. There will be weekly assignments you will need to complete in a timely manner.   Written homework will be posted on Blackboard. You will need to print and complete it. Written homework will be collected on the following exam night. Homework will account for 15% of your grade.

To enroll in Webassign go to www.webassign.net
Click on "LOG IN"
Click on "I have a Class Key"
Enter the Class Key: reedley 5189 2925
Click on "Yes, this is my class" (if the information is correct)
Follow the onscreen instructions

Online Quizzes: There will be a weekly online quiz over the homework assigned that week. You will need to take each quiz on or before the due date whether your homework is complete or not. A quiz will no longer be available after its deadline passes. If the quiz is not completed by the deadline the resulting grade will be a zero. Online quizzes will account for 10% of your grade.

Midterm Exam: Two midterm exams will be given on Reedley College campus Thursday July 1, 2010 and Thursday July 15, 2010 at 6:00 pm in FEM 4. This will be a comprehensive exam of all sections assigned up to that point. Photo ID must be shown before the exam will be given. These exams account for 45% of your grade.

Final Exam: There will be a comprehensive final exam at the end of this course. The final exam date for this course is Friday August 6, 2010, 6:00 pm at Reedley College in FEM 4. Photo ID must be shown before the exam will be given. This exam will account for 30% of your grade. If it helps you, your lower midterm exam score will be replaced with your final exam score.

Grading

Catagory	Weight
Homework	15%
Online Quizzes	10%
Mitderm Exams	45%
Final Exam	30%

Overall Percentage	Grade
90<100	A
80<90	B
70<80	C
60<70	D
0<60	F

Grades will be posted at http://sc.webgrade.classmanager.com/ReedleyCollege/

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

Academic Dishonesty: 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 in the course. For the college policy on cheating and plagiarism, see the college catalog.