

Reedley College  
Math 4A  
**Syllabus**

**Course:** Math 4A Trigonometry

**Schedule number:** 78065

**Instructor:** Ron Reimer

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**Text:** 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 Manual

**Website:** <http://www.webassign.net>

**Class Key:** reedley 2121 8806

**Meeting times:** MTWTHF, 8:00 AM – 10:10 AM, FEM 4E, 6/14/10 – 7/23/10

**Important dates:** Fri 7/5/10 Independence day observed, No Class  
7/02/10 Last day to drop this course without receiving a grade  
Fri. 7/23/10 Final Examination

**Course Description:** This course is designed to meet the pre-requisite requirements and prepare the student for higher mathematics courses such as Calculus. Trigonometry is the study of triangles.

**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.

**Attendance:** In order to maintain continuity of subject matter regular attendance is imperative in any academic course. Students, who do not attend class consistently, learn less and typically earn lower grades than students who do attend class consistently. You are expected to attend all class sessions, arrive on time and stay for the entire session. If you accumulate 3 or more absences before July 02, 2010, you will be dropped from this course. Do not be late to class, being tardy two times will count as an absence. If you are not present when role is taken you will be marked absent, it is your responsibility to inform me if you arrive after role is taken.

**Grading:** Grades will be based on three sets of criteria: Homework, Midterm exams and quizzes, and a Final exam.

**Homework:** Most of the homework will be completed online at <http://www.webassign.net>. Problems will be assigned daily. The online homework will be scored right or wrong. You will be given up to 5 attempts for each problem. Some homework will be written and collected in class. **No late homework assignments will be accepted.** Homework will make up twenty-five percent of your grade.

**Midterm Exams and quizzes:** The midterm exams and quizzes will make up the majority of your grade in this course. In most cases a midterm exam will follow the completion of a chapter in the textbook and cover the material discussed in that chapter only. If appropriate a midterm exam may cover more or less than one chapter in the text. The material you will be held accountable for on an exam will be clearly announced before each exam. Your lowest midterm exam score will not be calculated in your overall grade. Midterm exams and quizzes will make up sixty-five percent of your grade.

**Final Exam:** There will be a comprehensive final exam at the end of this course. The final exam may not be dropped from your grade. The final exam will make up 10% of your grade. The final exam date for this course is Friday July 23, 2010 at 8:00 AM.

## Grading scale:

Total Percentage Points	Grade
90<100	A
80<90	B
65<80	C
50<65	D
0<50	F

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.

A blackboard website will be maintained for this course. The web address is:  
<http://blackboard.reedleycollege.edu>

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

Password = *Your student I.D. number*

To enroll in Webassign go to [www.webassign.net](http://www.webassign.net)

Click on "LOG IN"

Click on "I have a Class Key"

Enter the Class Key: **reedley 2121 8806**

Click on "Yes, this is my class" (if the information is correct)

Follow the onscreen instructions