Reedley College
Math 4A
**Fall '14 Syllabus**

**Course:** Math 4A, Trigonometry
**Schedule number:** 59935
**Instructor:** Ron Reimer
**E-mail:** ron.reimer@reedleycollege.edu
**Phone:** (559)638-3641 ext. 3355
**Office Hours:** TWTh 11:00 am – 12:00 pm
**Text:** Required: Lial, Trigonometry Tenth Edition,
　　　ISBN: 9780321671776

　　　Optional: Lial, Student's Solutions Manual for Trigonometry, 10/E,
　　　ISBN: 9780321791535

**Important dates:**

| September 1 | Monday | Labor Day, No Class |
|---|---|---|
| August 29 | Friday | Last day to drop without receiving a "W" |
| October 10 | Friday | Last day to drop a full term course |
| November 11 | Tuesday | Veterans Day, No Class |
| November 27-28 | Thurs-Fri | Thanksgiving Holiday, No Class |
| December 10 | Wednesday | Final Exam, 1:00 – 2:50 pm, CCI 201 |

**Required:**
- A scientific calculator, my personal favorite is the TI-30XIIS, but any will work. Graphing calculators may not be allowed on exams. Phones are not allowed when taking exams.
- Graph Paper
- Lots of determination and time. This class will take a lot of work.

**How to approach learning Math:**
　　1) Open the textbook and read sections being lectured prior to the lecture. Make a mental note of any definitions and theorems given. Work through the examples and try them on your own.
　　2) Attend the lecture and take detailed notes.
　　3) Work through the assignment.
　　4) Get help if needed. Help is available in the Math Center, online tutorial service, tutorial center in the library, and my office.

**Course Description:** This course in trigonometry of the plane concentrates on trigonometric functions and their applications. Topics covered include the trigonometric functions, solution of right triangles, radian measure, fundamental identities, angular measure, graphs, logarithms, functions of composite angles, oblique triangles, trigonometric equations, inverse trigonometric functions, and complex numbers, including powers and roots. The study of polar coordinates and polar equations is also covered.

**Course Objectives**
I.  Evaluate trigonometric function values of both acute and obtuse angles using both special angle values and calculator values.
II.  Use the unit circle to determine the radian measure of angles and convert from radian to degree measure and vice versa.
III.  Derive the basic trigonometric identities, sum and difference formulas, and double-angle and half-angle formulas.
IV.  Use the Law of Sines and Law of Cosines to solve both acute and obtuse triangles.
V.  Use polar coordinates to represent points and to graph polar equations.
VI.  Represent vectors in the rectangular coordinate system and identify their magnitude and direction; perform operations (addition,
subtraction, scalar multiplication and dot product) with vectors.
VII.  Graph trigonometric functions.
VIII.  Use the trigonometric functions to determine sides and angles of right and oblique triangles.

**Attendence:**  In order to maintain continuity of subject matter regular attendance is imperative in any academic course.  You are expected to attend all class sessions, arrive on time and stay for the entire session.  If you have accumulated more than 4 absences on October 10, 2014 you will be dropped from this course.  Do not be late to class.  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 has been taken.

**Homework:**  Homework is to be done on standard notebook paper.  If using a spiral notebook please tear off the shredded edge.  Homework will have two parts.  The first part will consist of odd numbered problems for which the answers are available in the back of the book.  It will be graded based on completeness.  To be complete the problems need to be written down as they are given in the book (except word problems), all important steps must be shown (show work as I do in class) and the solution must be given.  The second part will consist of even numbered problems.  It is to be done on a separate piece of paper and will be graded based on completeness and accuracy as time allows.  Homework will be 25% of your grade.

**Exams:**  The midterm exams 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.  Midterm exams will be 65% of your grade.

**Final Exam:**  There will be a comprehensive final exam at the end of this course.  If you have 4 or fewer absences and 4 or fewer tardy marks at the end of the semester and if it helps you I will replace your lowest midterm exam score with your final exam score.  The final exam will be 10% of your grade.  The final exam date for this course is Monday December 10, 2014, 1:00 – 2:50 pm.

**Grading**

| Catagory | Weight |
|---|---|
| Homework | 25% |
| Exams | 65% |
| Final Exam | 10% |

| Overall Percentage | Grade |
|---|---|
| 90<100 | A |
| 80<90 | B |
| 70<80 | C |
| 60<70 | D |
| 0<60 | 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.

**Academic Dishonesty**
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 ranging from a failing grade on a specific assignment to a failing grade in the course.