Math 4A – Fall 2014 (59933)

Ms. Maria Ortiz (maria.ortiz@reedleycollege.edu)

Hours: T,W, TH 9:00 – 10:00 (other hours by appointment)

MTWTH @ 8:00 – 8:50 FEM – 4E

Office: CCI 211 Ext: 3208

## TRIGONOMETRY

## **COURSE DESCRIPTION**

Math 4A is a trigonometry class that involves angles, trigonometric and inverse trigonometric functions, right and oblique triangles, graphs, identities, trigonometric equations, vectors, polar coordinates, DeMoivre's Theorem, and applications.

## **TEXTBOOK**

Lial, Hornsby, Schneider, Daniels, Trigonometry, 10<sup>th</sup> Edition. Pearson/Addison Wesley, 2013.

**SUBJECT PREREQUISITE:** Successful completion (grade of  ${\cal C}$  or better) in Math 102 and Math 103 or equivalent.

## **MATERIALS NEEDED:**

- Textbook
- □ Two spiral <u>gridpaper</u> notebooks, Cambridge brand in the bookstore. No other notebooks will be accepted!
- 3-ring binder
- Paper and Pencil(s)
- □ Calculator (I **strongly recommend** a TI-83 or 84)

# **ATTENDANCE AND TARDY POLICY**

- Students are expected to attend all class meetings, be on time, and be in class the <u>entire</u> class session.
- The only excused absences are those due to a school-related activity or a requirement to appear in court. Calling me to tell me you will be absent <u>does not</u> excuse the absence.
- Students are expected to be on time. It is distracting, rude and unfair to fellow classmates and to the instructor when a student is late. **Two tardies will be counted as an absence.**
- If a student arrives late, it is his/her responsibility to inform the instructor **after class** so that the absence can be changed to a tardy.
- A student who misses <u>eight (8) class sessions</u> in the first 9 weeks of the semester <u>may</u> be dropped from the course. However, if a student decides to no longer be enrolled in the course, it is the <u>student's responsibility</u> to make the drop official in the Admissions and Records office or else possibly receive a grade of F.

# **HOMEWORK**

• Homework is assigned on a regular basis in class. All homework will be due <u>at the beginning</u> of the next class session after it was assigned. All homework is to be done on the gridpaper from the Cambridge notebook listed in the materials list. <u>I will not accept homework that is not on this paper!</u>



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All problems and exercises assigned must be worked out thoroughly, completely and neatly, in pencil, otherwise the work will not receive full credit.

• Being absent on the day homework is due does not entitle you to turn it in late.

## **QUIZZES**:

There will be in-class quizzes at the discretion of the instructor. These quizzes will be worth 20 points each and may be given **at any point during the class time**. There will be no makeup quizzes for students coming in late during a quiz or for students absent on the day of a quiz. Students leaving class early after taking a quiz will receive a zero on that quiz. These quizzes will be counted as part of the homework grade.

### TESTS:

- There will be 4 6 exams, worth 100 points each.
- There are NO MAKEUPS for missed exams. <u>NO EXCEPTIONS</u>!!
- If you absolutely <u>must</u> be absent on the day a test is scheduled, you may discuss with me the possibility of taking the test <u>early</u>.

## FINAL EXAM:

A two hour comprehensive final exam worth 100 points will be given at the end of the semester. This final exam is optional and may be used to replace a low exam score or a missed test. The final may **not** be used to replace the homework grade.

### **GRADING**

- Homework and guizzes will represent 30% of the final course grade.
- The exams will represent 70% of the final course grade.

*Example:* If your homework/quiz average is 90 and the average of your exams is 78, then you would compute your grade as follows:

$$(.30)(90) + (.70)(78) = 27 + 54.6 = 81.6$$

• Your grade will then be determined by the following **grading scale**:

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

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## **Important Dates:**

Aug. 22, 2014	Last day to drop a Fall 2014 full-term class for a full refund
Aug. 29, 2014	Last day to drop a Fall 2014 full-term class to avoid a W
Aug 29, 2014	Last day to add a full-term class
Sept. 1, 2014	Labor Day Holiday – No classes
Sept. 12, 2014	Last day to file for P/NP grading basis
Oct. 10, 2014	Last day to drop (receive a W)
Nov. 11, 2014	Veteran's Day Holiday — No classes
Nov. 27-28, 2014	Thanksgiving Holiday – No classes
Dec. 8, 2014	FINAL EXAM: 8:00 – 9:50, Fem 4E

**Academic Dishonesty:** Academic dishonesty <u>in any form</u> 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.

**NOTE:** If you have a verified need for an academic accommodation or materials in alternate media per the Americans with Disabilities Act or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

#### **COURSE OBJECTIVES**

Students will be able to:

- apply the trigonometric functions to solve for the parts of a triangle.
- evaluate trigonometric functions of both acute and obtuse angles.
- solve problems involving vectors
- apply the concept of radian measure to circular functions
- apply trigonometric identities to simplify algebraic expressions and solve equations.
- apply the concept of polar coordinates to algebraic operations and graphs.
- apply computing and graphing technology.

#### **COURSE CONTENT OUTLINE**

**Chapter 1:** Trigonometric functions

**Chapter 2:** Acute Angles and Right Triangles

**Chapter 3:** Radian Measure and Circular Functions

**Chapter 4:** Graphs of the Circular Functions

**Chapter 5:** Trigonometric Identities

**Chapter 6:** Inverse Circular Functions and

**Trigonometric Equations** 

**Chapter 7:** Applications of Trigonometry and Vectors

Chapter 8: Complex Numbers, Polar Equations and

Parametric Equations (as time permits)