MTTTHF@1:00 1:50
Room: CCI 206

## 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

Charles P. McKeague and Mark D. Turner, Trigonometry, $6^{\text {th }}$ Edition. Thomson, Brooks/Cole, 2008.

SUBJECT PREREQUISITE: Successful completion (grade of Cor better) of Math 102 and Math 103 or equivalent.

## MATERIALS NEEDED:

- 3-ring binder
- Binder Paper
- Pencil(s)
- Calculator (Scientific, preferably a graphing calculator)
- Access Code to WebAssign


## ATTENDANCE AND TARDY POLICY

- Students are expected to attend all class meetings, be on time, and be in class the entire 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 does not 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 six (6) class sessions in the first 9 weeks of the semester may be dropped from the course. However, if a student decides to no longer be enrolled in the course, it is the student's responsibility 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 at www.webassign.net as well as in class. Homework will not be accepted late for any reason.
- Written problems and exercises must be worked out thoroughly, completely and neatly, otherwise the work will not receive full credit.
- Graphs and charts are very important in Trigonometry so they need to be drawn, labeled, titled and scaled accurately and neatly.
- The two lowest homework scores will be dropped to account for emergencies.

Note: Being absent on the day homework is collected does not give you the right to turn in the assignment late.

## TESTS:

- Six (6) chapter tests, worth 100 points each, will be given.
- An average score of $70 \%$ on the unit's homework is a prerequisite for the exam. If you have earned at least $\mathbf{7 0 \%}$ of the possible homework points for that unit, then whatever score you earn on your exam will be the score entered for your exam grade. If, however, you earn less than $\mathbf{7 0 \%}$ on your homework, then the average of your homework grade and your test score will be the score entered for your exam grade.
- There are NO MAKEUPS for missed tests. NO EXCEPTIONS!!
- If you absolutely must be absent on the day a test is scheduled, you may discuss with me the possibility of taking the test early.


## 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 chapter exam score or a missed test. The final may not be used to replace the homework grade.

## GRADING

- Homework will represent $20 \%$ of the final course grade.
- The six (6) chapter exams will represent $80 \%$ of the final course grade.

Example: If your homework average is 75 and the average of your chapter exams is 80, then you would compute your grade as follows:
$(.20)(75)+(.80)(80)=15+64=79$

## Grading Scale:

| $\%$ Earned | Grade |
| :---: | :---: |
| $\mathbf{9 0 - 1 0 0}$ | A |
| $\mathbf{8 0 - 8 9}$ | B |
| $\mathbf{7 0 - 7 9}$ | C |
| $60-69$ | D |
| $0-59$ | F |

## Important Dates:

- September 4, 2009 - Last day to add
- September 7, 2009 - Labor Day Holiday
- September 18, 2009 - Last day to file for Pass/No-Pass grading basis
- October 16, 2009 - Last day to drop
- November 26 - 27, 2009 - Thanksgiving Holiday
- FINAL EXAM DATE; Monday, December 14, 2009: 1:00-3:00 (CCI-206)

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.

[^0] Americans with Disabilities Act or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

## COURSE OBJECTIVES AND LEARNING OUTCOMES

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 algebraic expressions.
- solve trigonometric equations.
- apply the concept of polar coordinates to algebraic operations and graphs.
- apply computing and graphing technology.


## COURSE CONTENT OUTLINE AND TENTATIVE MATERIAL COVERED

Chapter 1: The six trigonometric functions
Chapter 2: Right triangle trigonometry
Chapter 3: Radian Measure
Chapter 4: Graphing and Inverse Functions
Chapter 5: Identities and Formulas
Chapter 6: Solving trigonometric and parametric equations
Chapter 7: Solving Triangles: Law of Sines, Law of Cosines
Chapter 8: Complex Numbers and Polar Coordinates (as time permits)


[^0]:    NOTE: If you have a verified need for an academic accommodation or materials in alternate media per the

