

Syllabus

MATHEMATICS 151 / [MW AM – Pink Class] TRIGONOMETRY (CRN # 20484) FALL 2011 SEMESTER (August 29 – December 17)

Instructor: Mr. Rob Everest

Class Location: MA 207, MW 8:50am-10:55am

Textbook: Trigonometry, 9th edition (Lial, Hornsby & Schneider),
(bundled with a MyMathLab Student Access Code)

Office Location: MA 214

Telephone: (626) 852-8054

Office Hours : MW 11:00am-12:30pm & TuTh 11:30am-12:45pm

E-mail: reverest@citruscollege.edu

Websites:

<http://www.citruscollege.edu/academics/courses/everest/Pages/default.aspx>
& <http://www.matheverest.com>

This semester you will delve further into the study of functions, specifically trigonometric functions. Curriculum includes angle conversions, right triangle problems, unit circle, graphing techniques, translations, trigonometric identities, proof, inverse trigonometric functions, trigonometric equations; Laws of Sines & Cosines; vectors; polar & parametric graphing; complex numbers; De Moivre's Theorem; modeling & technological integration.

MATH 151 STUDENT LEARNING OUTCOMES

Upon completion of this course, students will be able to do the following:

- * Critically examine how to generate graphs of the six basic trigonometric functions and their transformations by hand and with graphing technology
- * Analyze and verify trigonometric identities by making substitutions and recalling basic identities
- * Exhibit an understanding of how to define the six trigonometric functions in terms of a right triangle
- * Determine the values of the trigonometric functions for angles by using the definitions from right triangle trigonometry and/or by using a calculator
- * Determine the domain, range, period, and signs of the six trigonometric functions using the unit circle
- * Develop an understanding of how to solve trigonometric equations by applying algebraic concepts and trigonometric identities
- * Exhibit an understanding of how to find exact and/or approximate values of inverse trigonometric functions
- * Apply the Law of Sines and the Law of Cosines
- * Show how to express complex numbers in rectangular and trigonometric form and convert them from one form to another and vice-versa
- * Develop an understanding of how to perform operations with vectors, including adding and subtracting vectors, multiplying vectors by scalars and the dot product of vectors, graphically and algebraically
- * Convert Rectangular Equations to Polar Equations and vice-versa by using the relationship between the rectangular and polar coordinates of a point
- * Identify curves defined parametrically by creating a table of values for the parametric equations

Accommodation: If any student is in need of an accommodation due to a documented disability, the student must notify the instructor within the first two weeks of class in order for the proper arrangements to be made.

Attendance/Participation:

- Three tardies equals one absence. You are considered tardy if you are not present in class for between five minutes up to half of the minutes of any class, regardless as to whether that means you missed the beginning of class, part of the middle of class, or you left early. Each tardy deducts 2 points from your participation grade.
- You are considered absent from any class, if you do not attend for at least half of that one session. Three absences are allowed through the eight-week drop date. If you accrue more than these three allowable absences (four or more) during the first eight weeks of the semester, you will be automatically dropped from the class. If two of these allowed absences occur in the first two weeks of class, you will be dropped from the class. During the second half of the semester, three more absences are allowed before receiving an automatic fail. Each absence deducts seven points from your participation grade. Missing an exam, without previously informing the instructor, may result in your being dropped from the class.
- Deliberate distractions from class, like sleeping in class; cell phones going off, **text messaging**; not having your textbook, notebook and writing utensils; doing your homework in class; etc., will not be tolerated. Each deliberate distraction from class deducts 2 points from your participation grade, and you will need to leave the room until allowed back in the classroom. A second deliberate distraction in the same class period will be met with dismissal from class the entire day, which means a 7 point participation grade deduction.

Grading :

Individual tests 30%

Quizzes 15%

Final Exam 25%

MyMathLab.com Homework 20%

Participation 10%

Grading Scale :

89.5% - 100% "A"

59.5% - 69.4% "D"

79.5% - 89.4% "B"

0% - 59.4% "F"

69.5% - 79.4% "C"

Exams/Quizzes

- Quizzes can be announced or not. If a student is not present either the day that a take-home quiz is passed out, or the day that it is due, the student will not receive credit for that quiz, unless previous arrangements have been made with the instructor. **All take-home quizzes are to be done (on your own) independently; that is without help from anyone, including mentors, other classmates, and/or tutors.** If you are caught working with someone else on a take-home quiz, or copying someone else's work for a take-home quiz, or providing someone with your take home quiz for copying purposes, you will first receive a 0% on the entire take-home quiz. A second similar infraction will lead to more severe disciplinary action, usually a suspension from class for a time period to be determined at the time of the infraction.
- Three (3) individual exams will be administered during the six-week semester at approximately ten day intervals (approximately every six class meetings).
- If you do not take a midterm during its regularly scheduled time and you have not contacted the instructor first to make an accommodation due to the emergency (which will be confirmed by the instructor), you will receive a zero on that exam. **If the missed exam is the first exam, you will be dropped from the class.**
- **FINAL EXAM DATE: Wednesday, December 14th, 2011, 8:00 am – 10:00 am**

Homework :

Homework (HW) is to be done digitally within our MyMathLab.com class : **everest45715** , which has the course name : “Fall 2011 MW AM Math 151 - CRN 20484 MML Class - Everest”

- You need a MyMathLab Student Access Code , if you have obtained a book without the student access code.
- When registering for the class, the screen should look like this :

Register | Pearson MyLab / Mastering

MyLab / Mastering

Home Learn About Students Educators Contact Us

Register

Sign In

Sign in with your Pearson account. Create an account if you don't already have one.

Username

Password

Sign In

Forgot your username or password?

Your Course
Fall 2011 MW AM Math 151 - CRN 20484 MML Class - Everest
Course ID: everest45715
Taught by Instructor Robert Everest at CITRUS COLLEGE
Course ends Nov 18, 2012

Not your course? Enter a different course ID.

ALWAYS LEARNING PEARSON

- The Homework assignments are available off the “**HOMEWORK**” button, and have names like “MML Ex 1.1”, and “MML Ex 1.2”, for sections 1.1 & 1.2 , etc.. All of the homework assignments cover just a section from within a chapter from our textbook. The MyMathLab class site will look like the picture below and the “**HOMEWORK**” button has been pointed out in the following picture:

CourseCompass

PEARSON CourseCompass

Welcome, Robert Everest (Courses Help & Support About My Account

COURSES > FALL 2011 MW AM MATH 151 - CRN 20484 MML CLASS - EVEREST > COURSE HOME

Homework Button

PEARSON MyMathLab Trigonometry 9TH EDITION

PEARSON Addison Wesley Benjamin Cummings LIAL HORNSBY SCHNEIDER

Fall 2011 MW AM Math 151 - CRN 20484 MML Class - Everest

Instructor: Robert Everest

Welcome to the course from Addison Wesley/Benjamin Cummings to support *Trigonometry*, 9/e by Margaret Lial, John Hornsby Schneider. Developed by educators, CourseCompass online content features the most advanced educational technology available! The outline below displays at a glance all course content that is currently available to students. Click Announcements for some important orientation and guidance for working with this particular course.

Fall 2011 MW AM Math 151 - CRN 20484 MML Class - Everest

- The course ID is : **everest45715** (do not put a space between the “everest” & “45715”)
- **Deadlines for the 39 MyMathLab homework assignments (by individual section) are included on another handout given at the beginning of the class.**
- **As I will demonstrate in class. you have three attempts at any particular problem, but you can ask for another problem, which essentially means that you have an unlimited number of attempts for each problem. By the end of the semester, I will drop the lowest four (4) scores of these 39 MyMathLab homework assignments, in computing your MyMathLab homework average.**

Calculator:

A **graphing calculator** (many versions/models available) **is required**, but graphing calculators cannot be used as your sole method of solving problems, unless otherwise specified. You must be able to simplify & solve problems by “pencil and paper methods”, as modeled in class. The textbook uses screen shot pictures from the **TI-83 & TI-84+** calculators and the instructor will be using the **TI-84 Plus** (from Texas Instruments, available at many stores that sell electronic devices, and costs around \$100) to analyze functions with handheld technology. Most students find that the utility of these very handy tools, far outweighs the amount of money spent. These tools will usually be accepted & utilized by future math teachers. You are to use these graphing calculators though to check the answers that you simplified/solved through pencil and paper methods, unless otherwise specified. If you peruse the text, you will find examples of the use of these graphing calculators in almost every chapter. **TI-89’s and TI-92’s are not allowed , unless arrangements are made with the instructor.** Please conduct these discussions outside of class time.

Behavior: General school policies apply. All work is to be completed individually, unless otherwise directed by the instructor. Cheating consequences range from a zero on the assignment to an “F” in the class. All matters concerning student behaviors and disciplinary issues are subject to the outlined principles in the student handbook.

General announcements: All work (quizzes, tests, and homework) **should be done in pencil**, and should be ready to be turned in at the beginning of the class in which it is due. **All applicable steps (solutions/work) need to be shown. No late work will be accepted. All graphing needs to be done on graph paper.** All dates listed in the regular schedule apply. There will be “no record” shown, if you drop this class by the **Monday of the 4th week, (September 19th, 2011)**. If this class is dropped on or before the **Monday of the 9th week, (October 24th, 2011)**, you will receive a “W” (withdrawal) on your transcript. After the “W” deadline, the student will receive the applicable letter grade. **No food or drink are allowed in class, except water in a closable container.**