

Course Syllabus Plane Trigonometry MATH 1316

Semester with Course Reference Number (CRN)	Spring 2011 Math 1316=0004 (64268)
Instructor contact information (phone number and email address)	Mary Jane Ferguson mary.ferguson@hccs.edu 713-718-6441
Office Location and Hours	310 JDB 3:00 – 5:30 PM MW
Course Location/Times	302 JDB 5:30 – 7:00 PM MW
Course Semester Credit Hours (SCH) (lecture, lab) If applicable	Credit Hours3.00Lecture Hours3.00Laboratory Hours
Total Course Contact Hours	48
Continuing Education Units (CEU): if applicable	
Course Length (number of weeks)	18
Type of Instruction	Lecture
Course Description:	Topics include solutions of triangles, Euler identity, graphing of trigonometric and inverse trigonometric functions, identities, trigonometric equations, applications including DeMoivre's Theorem, and an introduction to vector analysis.

Course Prereguisite(s)	PREREQUISITE(S):		
	 MATH 1314 with a minimum grade of C or better or The equivalent 		
Academic Discipline/CTE Program Learning Outcomes			
Course Student Learning Outcomes (SLO): 4 to 7	 Examine and interpret the graphs of basic trigonometric functions, vectors, and polar plots, and their transformations. Apply standard trigonometric identities to simplify expressions and to solve trigonometric equations and applications. Determine the exact value and approximation of basic trigonometric functions. Rewrite complex numbers in polar form and apply arithmetic operations using both polar and standard forms of complex numbers. 		
Learning Objectives (Numbering system should be linked to SLO - e.g., 1.1, 1.2, 1.3, etc.)	Examine and interpret the graphs of basic trigonometric functions, vectors, and polar plots, and their transformations. Apply standard trigonometric identities to simplify expressions and to solve trigonometric equations and applications. Determine the exact value and approximation of basic trigonometric functions. Rewrite complex numbers in polar form and apply arithmetic operations using both polar and standard forms of complex numbers.		
SCANS and/or Core Curriculum Competencies: If applicable	SCANS Examine and interpret the graphs of basic trigonometric functions, vectors, and polar plots, and their transformations. Apply standard trigonometric identities to simplify expressions and to solve trigonometric equations and applications. Determine the exact value and approximation of basic trigonometric functions. Rewrite complex numbers in polar form and apply arithmetic operations using both polar and standard forms of complex numbers.		
Instructional Methods	Lecture, question and answer, textbook exercises, supplementary non-textbook exercises, group work		
Student Assignments	Examine and interpret the graphs of basic trigonometric functions, vectors, and polar plots, and their transformations. No assignments selected for this outcome Apply standard trigonometric identities to simplify expressions and to solve trigonometric equations and applications. No assignments selected for this outcome Determine the exact value and approximation of basic trigonometric functions. No assignments selected for this outcome Rewrite complex numbers in polar form and apply arithmetic operations using both polar and standard forms of complex numbers.		

	No assignments selected for th	is outcome	
Student Assessment(s)	Examine and interpret the graphs of basic trigonometric functions, vectors, and polar plots, and their transformations. No assessments selected for this outcome Apply standard trigonometric identities to simplify expressions and to solve trigonometric equations and applications. No assessments selected for this outcome Determine the exact value and approximation of basic trigonometric functions. No assessments selected for this outcome Rewrite complex numbers in polar form and apply arithmetic operations using both polar and standard forms of complex numbers. No assessments selected for this outcome		
Instructor's Requirements	No cell phones in class. Scientific non-graphing calculator 4 In Class Tests Unannounced Quizzes Comprehensive Final Exam The penalty for cheating is an F in the course		
Program/Disciplin e Requirements: If applicable	 Each instructor must cover The final exam is comprehensit course objectives. Each student should recer the course during the first week A minimum of three in cla examination must be given. The 4. All major tests should be a advance. The final exam must course advance. The final course average 89 "B"; 70-79 "C"; 60-69 "E Either an open book or a discretion of the instructor. Any review sheet should I that classroom notes, homewor sheet for any examination. 	er all course topics by the end of the semester. ive and questions on it can deal with any of the vive a copy of the instructor's student syllabus for a of class. ss tests and a comprehensive final departmental be final examination must be taken by all students. announced at least one week or the equivalent in and for at least 25 to 40 percent of the final grade. will be used in the usual manner (90-100 "A"; 80- D"; Below 60 "F"). take home major test may be given at the be comprehensive and the student should not feel rk and tests may be ignored in favor of the review	
HCC Grading Scale	A = 100- 90 B = 89 - 80: C = 79 - 70: D = 69 - 60: 59 and below = F IP (In Progress) W(Withdrawn) I (Incomplete) AUD (Audit) IP (In Progress) is given only in re-enroll to receive credit. COM	 4 points per semester hour 3 points per semester hour 2 points per semester hour 1 point per semester hour 0 points per semester hour 1 points per semester hour 2 points per semester hour 3 points per semester hour 4 points per semester hour 4 points per semester hour 5 points per semester hour 6 points per semester hour 7 points per semester hour 9 points per semester hour 	

re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses. To compute grade point average (GPA), divide the total grade

points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.

See "Health Science Program/Discipline Requirements" for grading scale.

Instructor Grading
CriteriaFour in Class Tests count 100 points each
Quizzes count as bonus credit only and the number varies with the progress of
the class
Final Exam counts 100 points
The lowest of the test grades is dropped at the end of the semester
The grade on the final exam will also count as the grade on one missed test.Instructional
MaterialsDugopolski, Mark, Trigonometry, Addison-Wesley, Second Edition, 2007.

HCC Policy Statement:

Access Student <u>http://hccs.edu/student-rights</u> Services Policies on their Web site:

Distance Education and/or Continuing Education Policies

Access DE Policies on their Web site:	http://de.hccs.edu/Distance_Ed/DE_Home/faculty_resources/PDFs/DE_Syllabus. pdf
Access CE Policies on their Web site:	http://hccs.edu/CE-student-guidelines