

Course Syllabus

MAC – 1147 Precalculus Algebra/Trigonometry Sec. 02

Room 7-206 Mon. & Wed. 9:00-9:50 Tues & Thurs 9:25-10:40

Fall 2008

Instructor	Allan Danuff	Office:	7-102D
Phone:	(352) 854 - 2322 ext. 1262	Office Hour	Mon : 1 :00-2 :00 Tues : 12 :15-1 :30 Wed : 1 :00-2 :00 Thur : 12 :15-1 :30 Fri : 9 :00-10 :50
E-mail	danuffa@cf.edu www.gocfcc.com/%7Edanuffa/		

TEXT:

Precalculus Graphs & Models, Fourth Edition, Bittinger, Beecher, Ellenbogen, Penna (ISBN#0-321-50152-7)

DESCRIPTION:

This course is designed to assist students in developing the trigonometric and algebraic background for the calculus curriculum and other areas that require a trigonometry and algebra courses. This course includes trigonometry, conic sections, matrices and determinants, sequences and series, polynomial, rational, exponential and logarithmic functions. Graphing calculator is required in this course.

PREREQUISITE:

MAC 1105 with a grade of "C" or better, or equivalent, or suitable placement score.

Students with Special Needs:

It is the student's responsibility to notify the Equal Access Service Office should you have a verifiable and document able special limitation, which may require special services. Furthermore, it is the student's responsibility to notify your instructor of the situation, which may require these special services. This notification is to be completed at the beginning of the term.

CFCC Math Center Hours:

Monday – Thursday: 8:00am – 6:00pm
Friday : 8:00am – 3:00pm
Saturday : Closed
Sunday : Closed

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Attendance: Each student is required to attend all class meetings. Attendance is required for all tests and **there will be NO make-up tests.** Non-attendance does not constitute withdrawal from this course. It is the student's responsibility to complete the withdrawal forms by the appropriate date. (5% of Final Grade)

Homework: The homework will be collected on the day of unit test. Please show all the work that is required to complete each problem. **No late homework will be accepted.** No student will be permitted to take the unit test unless the student has completed all the homework assignments. All work turned in should have the student's name and assignment on each page. (10% of Final Grade)

Quizzes: There will be a short quiz at the end of each class meeting, except for test dates. These quizzes could be problems related to the class discussion or a group project that will be completed in class. (35 % of Final Grade)

Tests: Attendance is required for each test. The unit homework grade will be used in place of the lowest test grade **OR** in the place of **ONE** test that was not taken, except for the final exam. **NO MAKE-UP TESTS OR RETESTS WILL BE ALLOWED. Every student is required to take the final exam. Any student who does not take the final will receive a zero on the final exam.** The Final Exam will count as two test grades. (50 % of Final Grade)

Grades: The final grades will be based upon the following grading procedure:

A 90- 100 %	B+ 87-89%	B 80- 86 %
C+ 77-79%	C 70- 76 %	D 60-69 %
F 0- 59 %		

And the above listed percentages.

Academic Integrity: The following items are **NOT** allowed to be used on a test: the textbook, notes, etc. Anyone who looks on another person's test paper during a test is guilty of cheating. Anyone who **gives or receives** help during a test is guilty of cheating. **Any student who is guilty of cheating could be dropped from this course or expelled from this college.**

Disclaimer: The Instructor reserves the rights to make any changes to these policies and procedures as well as the course outline as deemed necessary.

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Date	Section	Topic	Odd # Problems
8/18	1.5	Linear Equations, Functions, and Models	1-31,43-49,53,57,65,73-83,87-91,129
8/19	3.1	The Complex Numbers	1-83, 91
8/20	3.2	Quadratic Equations, Functions, and Models	1-25,55-59,69-103,113, 115
8/21	3.3	Analyzing Graphs of Quadratic Functions	3-15,31-53
8/25	3.4	Solving Rational & Radical Equations	1-71
8/26	3.5	Equations & Inequalities w/ Absolute value	15-31,49-61
8/28		Chapter 3 Test	
9/2	4.1	Polynomial Functions and Modeling	11-17, 19-22 ,27-49
	4.2	Graphing Polynomial Functions	1-11,33-39
9/3	4.3	Poly. Division; The Remainder/Factor Thm.	5-45,67
9/4	4.4	Thms. About Zeros of Poly. Functions	1-15,33-67
9/8	4.5	Rational Functions	1-11,39-63,79
9/9	4.6	Polynomial and Rational Inequalities	25-39,53-67,79
9/10	2.5	Variation and Applications	1-11,15,25-33,37
9/11		Chapter 4 Test	
9/15	5.1	Inverse Functions	1-9,25-35,55-65,83-87,101
9/16	5.2	Exponential Functions and Graphs	1-4 , 5-9, 27-30,46,66
9/17	5.3	Logarithmic Functions and Graphs	9-77, 92,97
9/18	5.4	Properties of Logarithmic Functions	1-57,65-75
9/22	5.5	Solving Exponential/Logarithmic Equations	1-47, 50 , 81
9/23	5.6	Applications and Models: Growth / Decay	1-17, 22,45
9/25		Chapter 5 Test	
9/29	6.1	Trigonometric Functions of Acute Angles	1-91, 114
9/30	6.2	Applications of Right Triangles	1-19,23-27, 36,50

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10/1	6.3	Trigonometric Functions of Any Angle	1-27,33-69,83-97, 118
10/2	6.4	Radians, Arc Length, and Angular Speed	9-57,69-79,93
10/6	6.5	Circular Functions: Graphs and Properties	7-41
10/7	6.6	Graphs of Transformed Sine and Cosine	11-39
10/9		Chapter 6 Test	
10/13	7.1	Identities: Pythagorean & Sum/Difference	1-29,51-61,65-71,87
10/14	7.2	Identities: Cofunction, Double/Half-Angle	9-25, 58 , 61
10/15	7.3	Proving Trigonometric Identities	1-29,73
10/16	7.4	Inverses of Trigonometric Functions	1-59,87
10/20	7.5	Solving Trigonometric Equations	11-21,27-35, 70
10/22		Chapter 7 Test	
10/23	8.1	The Law of Sines	1-29, 46
10/27	8.2	The Law of Cosines	1-31, 52
10/28	8.3	Complex Numbers: Trig. Form	1-7, 13-31
10/29	8.4	Polar Coordinates and Graphs	15-45
10/30	8.5	Vectors and Applications	1-29,37
11/3	8.6	Vector Operations	1-29, 45-47,79-81
11/4		Chapter 8 Test	
11/5	9.1	System of Equations in Two Variables	7-39, 53-67,71-75,91
11/6	9.2	Systems of Equations in Three Variables.	1-4,17
	9.3	Matrices and System of Equations	15-39
11/10	9.4	Matrix Operations	1-27,39-45
	9.5	Inverses of Matrices	13-23,29-41
11/12	9.6	Determinates and Cramer's Rule	1-7, 25-43,55-61
	9.8	Partial Fractions	1-5
11/13		Chapter 9 Test	
11/17	10.1	The Parabola	7-33,49
11/18	10.2	The Circle and The Ellipse	7-17, 23-45, 54

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11/19	10.3	The Hyperbola	11-33,40
11/20	10.4	Nonlinear Systems of Equations	7-53
11/24	10.5	Rotatation of Axes	9-17
11/25		Chapter 10 Test	
11/26	11.1	Sequences and Series	1-17,23-57,65-69,75
12/1	11.2	Arithmetic Sequences and Series	1-39
12/2	11.3	Geometric Sequences and Series	1-25,41-57
12/3	11.4	Mathematical Induction	5-15
	11.7	The Binomial Theorem	1-7,17, 37
12/4		Chapter 11 Test	
12/5		Rocket Project Due	
12/11		Final Exam (10:00-11:30 am)	

This schedule is subject to change at instructors discretion.

CFCC ACADEMIC CALENDAR Fall 2008

Classes Begin	August 18
Schedule Change Period (Drop/Add)	August 18-20
Drop Only	August 21-22
Last Day for a refund	August 22
Labor Day Holiday	September 1
CLAST Exam Registration	September 5
CLAST Exam Date	October 4
College Planning Day (Classes after 4:30 Meet)	October 8
Schedule Poster on the Web (Spring 2009)	October 20
Last Date to Drop Courses without "F"	October 28
Graduation Application Deadline	October 28
Veteran's Day Holiday	November 11
Thanksgiving Break	November 27-28
Classes End	December 5
Final Exams	December 8-11
Graduation	December 12

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Grade Reports to Registrar by Noon	December 15
CLAST Exam Registration	January 23
CLAST Exam Date	February 21

College Policies – Fall 2008

Academic Integrity- Cheating and/or plagiarism will not be tolerated and may result in an “F” for the course as well as disciplinary action under the Code of Student Conduct. A student may be referred to Academy Integrity Seminar. This two-hour seminar costs \$ 40.00 and attendance is required. (Student Handbook page 29)

Access Services- It is your responsibility to register with the Access Services Office should you have a verifiable and documented disability which may require reasonable accommodation (s). Further, it is your responsibility to provide your instructor with the Faculty Notification Sheet, which sets forth the reasonable accommodation(s) determined by the Equal Access Services Office.

Registration with Access Services should be done at the beginning of the Term.

Classroom Decorum- Disruptive behavior will not be tolerated. Disruptive students will be asked to leave the classroom. Continuous disruptive behavior will result in withdrawal from the course and disciplinary action under the Code of Student Conduct. (Student Handbook page 29)

CLAST- The CLAST is required for some degrees and for some programs. Each student should check the latest CFCC catalog or ask a counselor if it is required for his or her degree or if the student is exempt for portion of CLAST.

Withdrawal- Last date for refund August 22, 2008. Last date to withdraw with ‘W’ October 28, 2008. The college reserves the right to evaluate individual cases of non-attendance. Students should be alerted to the fact that (1) withdrawals do not count in the CFCC G.P.A, but may not be viewed favorably at the university level; (2) a withdrawal counts as an attempt under the forgiveness/withdrawal policy and the course repeat policy; (3) there are increased costs to take the course on the third attempt. (2008-2009 College Catalog page 68).

College Preparatory Courses- State law requires no more than three attempts TOTAL to complete all college preparatory (mathematics and reading) courses. Students registered in college prep courses who receive **N** grade must repeat the same course and complete it with a grade