

SYLLABUS

SEMESTER OFFERED	FALL-2008
COURSE	MATH 147, PRECALCULUS, 5 CREDITS
PREREQUISITE	A GRADE OF "C" OR BETTER IN MATH 108 INTERMEDIATE ALGEBRA, OR PLACEMENT (ACT 23, SAT 550, COMPSS ALGEBRA 61)
INSTRUCTOR	MASOUD F. KAZEMI
TEXTBOOK	PRECALCULUS A PROBLEM-ORIENTED APPROACH, SIXTH EDITION
AUTHORS	DAVID COHEN (with T. B. Lee & D. Sklar)
OFFICE	ROOM B-5, MLH BUILDING
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TELEPHONE	792-2401
OFFICE HOURS	M, T, W, and TH. 8:30 to 9:00 A.M. and 10:00 A.M. to 12:00 NOON. If you are not able to attend these announced office hours, ask the instructor for an appointment, or use the math-lab.

COURSE PURPOSE AND DESCRIPTION

This course is designed to help students acquire a solid foundation in algebra, preparing them for other courses such as calculus, and business calculus. To show students how algebra can model and solve authentic real-world problems. To enable students to develop problem-solving skills, while fostering critical thinking, within an interesting setting.

COURSE TOPICS

Upon completion of this course, each student will be able to understand:

The fundamental concepts of algebra, polynomials, factoring polynomials, rational expressions, equations, inequalities, and mathematical models, graphs and graphing utilities, complex numbers, quadratic and other type of equations. linear, quadratic, and rational inequalities, distance formula, basics of functions, graphs of functions, transformations of functions, combinations, composite functions, dividing polynomials, zeros of polynomials, rational functions and their graphs, modeling using variation, exponential and logarithmic functions, system of linear equations, matrices and matrix solutions to linear systems, matrix operations and their applications. In addition, the trigonometry part of this course introduces you to both right triangle and unit circle trigonometry, including work with isosceles triangles, vectors, and oblique triangles, the complex numbers, roots of unity, and trigonometric functions.

Method of evaluation:

- 10% Ten-minute quizzes. **Paper and pencil work, and no technology are allowed.** *
- 50% Hour exam, at least five will be given. **
- 20% Homework assignments. **
- 20% Comprehensive final exam.* *

Ten-minute quizzes are short exercises designed to verify that you have learned the minimum baseline skills you need to succeed in this and later courses.*

Grading:

60% D 68% D+ 70% C- 73% C 78% C+
80% B- 83% B 88% B+ 90% A- 93% A

IMPORTANT NOTE:

If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.

Rules

1. No late homework assignments for any reason, three homework assignments with the lowest score will be dropped. No homework assignments will be accepted for the day that homework assignment is due and student does not attend the class, and due homework assignments will be collected **ONLY** at the beginning of class period. ***
2. I will grade only selected problems from each homework assignments; you cannot depend on my grading of your homework assignments to discover your misunderstanding. Please, if you have any questions about your homework assignments, stop by my office and ask for help.
3. No make-up quiz or test. ***
4. To earn full credit on all your homework assignments, quizzes, and tests you must show all your work step by step and not only the final answers.
5. No food in the class room.

* Three Ten-minute quizzes with the lowest score will be dropped.

** There will be announced changes.

*** Except for school related activities.