

Syllabus

Close this window

Syllabus: MATH-1112 - MATH-1112-10 Fall 2008

Section Information: MATH-1112-10 Fall 2008

Course Name MATH-1112

Course Description College Algebra

Contact information

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Textbook

TEXT: Sullivan : Algebra and Trigonometry, 4th edition. Upper Saddle River, NJ, Prentice -Hall.

CD: WvEB Algebra, Pyzdrowski available through your school

Course Evaluation

Multiple forms of assessment will be used to measure your understanding of algebraic concepts and problem solving.

The point distribution of these assessments is:

A: 900 points or more

B: 800-899 points

C: 700 - 799 points

D: 600 - 699 points

F: 0 -599 points

Assessment

Multiple forms of assessment will be used to measure your understanding of algebraic concepts and problem solving. The

point

distribution of these assessments is:

EXAMS: There will be four tests given throughout the semester, each

is worth 100 points (400 possible points)

COMPREHENSIVE FINAL: There will be a comprehensive final worth 200

points. Final will be given no later than December 12, 2008.

(200

possible points)

LABORATORY ASSIGNMENTS: There will be 8 computer laboratory assignments. The laboratory scores will be averaged. You will be awarded laboratory points that are 2 times your laboratory average. Laboratory assignments should be done with a partner. Some points are awarded for the ability to communicate about mathematics. Any laboratories not submitted as a team effort, will not be awarded communication points. (200 possible points) You must work with a laboratory partner in your school to receive full participation points on the lab. Late labs will have a 10% deduction for each week that it is late after the test on which the lab appears.

QUIZZES: There will be 6 online homework quizzes and two ACT quizzes. The online homework quizzes are immediately graded and will be averaged for a possible 100 points. Homework Quizzes are open book and open notes, but must be done without help of your high school teacher-facilitator. You may attempt each HQ up to three times. You must complete at least one of each HQ before the test which includes the HQ sections. The HQ portion of the course will be "turned off" by 5:00 pm server time, December 9, 2008. Each ACT Quiz can allow you to earn bonus course points: between 1 number and 21 correct, earn 1 bonus point; 22 to 28 correct, earn 2 bonus points; 29 to 31 correct, earn 3 bonus points; 32 to 34 correct, earn 4 bonus points; 35 to 39 correct, earn 5 bonus points; 40 to 41 correct, earn 6 bonus points; 42 to 44 correct, earn 7 bonus points; 45 to 47 correct, earn 8 bonus points; 48 to, 49 correct , earn 9 bonus points; 50 to 60 correct, earn 10 bonus points; (120 possible points)

PARTICIPATION: You will be awarded up to 100 participation points for the course. Each individual course facilitator will determine

from how these points are awarded for any combination of points  
attendance, homework, portfolio, notebook, or other school  
requirement. (100 possible points)

## Help

On an average, you should expect to study two hours outside of class for each one hour in class. If you are spending more, then you may need to seek help! There are several excellent sources for such help. First, seek help from your classmates; use the WEBCT discussion group to get help or set up a study group. Often classmates can explain the problem clearly since they have been working on it. You may also seek assistance from your facilitator.

## University Policies

### Institutional Syllabus Statements

## Objectives

CONCEPTUAL UNDERSTANDING: rather than just rote memorization of algorithms  
MULTIPLE APPROACHES: to examine problems from analytical, geometric and numeric perspectives, to make judgements about the appropriateness of the choice of formal or approximate methods of solution  
TECHNOLOGY AS A TOOL: use technology as an integral part of the process of formulation, solution, and communication, to gain experience in selecting the proper tool for a given problem  
ACTIVE STUDENT LEARNING: to engage in the exploration and discovery of concepts and to learn to work cooperatively to solve problems  
COMMUNICATION OF IDEAS: to demonstrate understanding by explaining in written or oral form the meanings and applications of concepts  
PROBLEM SOLVING: gain experience as a problem solver, to analyze problems in an organized manner  
APPLICATIONS: use mathematics to model and solve problems  
HISTORY OF MATHEMATICS: to learn about mathematics as a human endeavor.

The specific goals of this course will be to stress an algebraic, graphical, and numerical approach to the study of:

understanding and using the concept of function  
mathematical application problems  
solving equations and inequalities in one variable using  
multiple representations  
graphing equations and functions  
lines, parabolas, and circles  
higher order polynomial, rational, radical, absolute value,  
exponential and logarithmic functions  
systems of equations and matrices  
To accomplish course goals, the class incorporates  
interactive laboratories which use technology and student activities that  
emphasize writing and student collaboration. Students will  
work in pairs or triads on the laboratories in order to develop  
mathematical communication skills. The development of your communication  
skills is an integral part of the course.

#### Course Schedule

Find schedule under "Course Information" on the home page.

#### Homework

See homework under "Course Information" on the home page.

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