

Chabot Community College, Department of Mathematics.

MATH 55 Intermediate Algebra. Room 1826 Time: M-Th 9-10:05 AM

Spring 2010. Instructor: **Eugene Ionel** Email: collegemath.net@gmail.com

Voicemail box # 2430 Website: <http://www.collegemath.net/chabot> Office Hours:
Tu,Th. 10:20-10:50 AM Room 3918.

Course Description:

This course covers the following topics: Systems of equations, inequalities, quadratic functions and equations, conic sections, logarithms and exponentials.

Textbook Robert Blitzer. *Intermediate Algebra for College Students*. Chabot 3rd Edition
Prentice Hall Publishing

Prerequisites: Math 65 (Elementary Algebra).

Expected Outcomes for Students:

Upon the completion of the course the student should be able to:

1. perform basic operations on complex numbers;
2. solve quadratic equations by factoring, completing the square, and quadratic formula;
3. find complex roots of a quadratic equation;
4. sketch the graphs of functions and relations:
 - a. algebraic, including polynomial and rational
 - b. logarithmic
 - c. exponential
 - d. circles;
5. find and sketch inverse functions;
 6. perform function composition;
7. solve exponential and logarithmic equations;
8. apply the concepts of logarithmic and exponential functions;
9. solve systems of linear equations in three unknowns using elimination and substitution;
10. apply the properties of and perform operations with radicals;
11. apply the properties of and perform operations with rational exponents;
12. solve equations and inequalities involving absolute values;
13. solve equations involving radicals;
14. graph linear inequalities in two variables;
15. find the distance between two points;
16. find the midpoint of a line segment.
17. Graph conic sections

Website

www.mathxl.com

System Requirements:

With WINDOWS operating systems: Windows 2000, Windows XP, and Windows Vista™

You can use these browsers: Internet Explorer 6.0 (XP Only), Internet Explorer 7.0, Firefox 2, Firefox 3

With MACINTOSH operating systems: MacOSX 10.4, MacOSX 10.5

You can use these browsers: Safari 3.1 (Recommended), Firefox 2, Firefox 3

Prerequisites: Math 65 (Elementary Algebra).

Course Grading

You will have 2 midterm and final exam in class. If 50% of a final would be greater than the lowest exam score then this score will be replaced by a half of final exam score. These exams will be announced in advance.

The rest of assignments will be done on line using MathXL website. You will have a deadline for completing each of them.

On line portion will include: 20 Homework Assignments, 10 Quizzes and 5 Tests.

You will be able to repeat all on line assignments to achieve maximum scores. In order to advance to next assignment you will need to solve 90% of each Homework Assignment and 70% of each Quiz/Test correctly.

Keep in mind that Homework Assignments are the same regardless of how many times you repeat them. Homework doesn't have time limit.

Quizzes and Tests present new set of problems every time you take them. Time limit is 30 minutes for a Quiz and 60 minutes for a Test.

- Mid Term 1 100 points
- Mid Term 2 100 points
- Final 200 points
- On line assignments 300 points (homework 60/quizzes 90/tests 150)

A	630-700	90%
B	560-629	80%
C	420-559	60%
D	350-419	50%
F	0-349	

Additional requirements:

Absenteeism Policy: Students are responsible to drop or withdraw themselves, and I reserve the right to drop a student who missed 4 classes in a row or 6 classes during semester without documented excuse.

Academic Dishonesty: Academic dishonesty, in all of its forms, including plagiarism, is not tolerated. Students found responsible for violating this rule may be given a failing grade in the specific course and are subject to further disciplinary action. Specifically, students who are caught cheating will be given a zero score on the exam in question. A repeat incident will result in expulsion.

Disruptive Behavior: Students are required to respect classroom activities and show common courtesy to both instructor and peers. Behavior such as excessive discussion between classmates on content which is unrelated to course materials will not be tolerated. It is the instructor's discretion to determine what disruptive behavior is and request appropriate remedy which may result in student's expulsion from the class. No players, ipods or text messaging during the class meetings. **Please turn your cell phone ring into vibration mode.**

Last Day to Drop: April 16, 2010

Final Exam: Wednesday May 26, 2010 10:00-11:50 AM

Calculators required for class and homework, but are not allowed on tests.

Last but not the Least

1. No make-up on a midterms.
2. Failure to take the final at the proper time and place will result in an automatic F in the course, except cases of documented illness.
3. In case of dispute of recorded score it is a responsibility of a student to keep all exam papers until end of a semester.