

OHLONE COLLEGE
Ohlone Community College District
OFFICIAL COURSE OUTLINE

I. Description of Course:

1. **Department/Course:** MATH - 152A

2. **Title:** Algebra II (Part 1)

3. **Cross Reference:**

4. **Units:** 2.5

Lec Hrs: 3

Lab Hrs:

Tot Hrs: 54.00

5. **Repeatability:** No

6. **Grade Options:** Grade Only (GR)

7. **Degree/Applicability:**

Credit, Degree Applicable, Not Transferable (D)

8. **General Education:**

9. **Field Trips:** Not Required

10. **Requisites:**

Prerequisite

MATH 151 Algebra I or MATH 151A and B with a grade of C or better or equivalent or Placement Evaluation

12. **Catalog Description:**

This course includes the study of systems of linear equations, inequalities, radical expressions and equations, problem solving, and complex numbers.

13. **Class Schedule Description:**

Linear systems, inequalities, radical expressions and equations, complex numbers.

14. **Counselor Information:**

This is the first half of the second course in Algebra. Coupled with Math 152B, the two courses are equivalent to Math 152. In combination, they are primarily intended for people who do not wish the more rapid pace of Math 152.

II. Student Learning Outcomes

The student will:

1. Demonstrate the ability to graph and algebraically solve systems of linear equations.
2. Show increased skill in setting up and solving word problems.
3. Solve problems involving geometric applications useful for trigonometry.

III. Course Outline:

A. Systems of Linear Equations and Problem Solving

B. Inequalities and Problem Solving

C. Exponents and Radicals, including Geometric Applications and Complex Numbers.

IV. Course Assignments:

A. Reading Assignments

1. Selected chapters in assigned textbook, per instructor

B. Projects, Activities, and other Assignments

C. Writing Assignments

1. Selected homework from course outline

V. Methods of Evaluation:

- A. Exams
- B. Quizzes
- C. Homework

VI. Methods of Instruction:

- A. Lecture
- B. Discussion
- C. Audiovisual
- D. Self-Paced
- E. Computer Assisted Instruction
- F. Collaborative Learning

VII. Textbooks:

Recommended

1. Bittinger, Ellenbogen, and Johnson *Elementary and Intermediate Algebra: Concepts and Applications, Volume 2* Second Edition, Pearson Custom Publishing, 2007
2. Hawkes Learning System (This is required for the self-paced class). *Introductory Algebra (software)* First Edition, Hawkes Learning System, 2006 ISBN: 0-918091-26-8

Supplemental

VIII. Supplies:

- A. Graph paper, \$2