

**Ventura College**  
**COURSE OUTLINE OF RECORD**

**I. Course Information** (Printed catalog data elements)

A. Discipline:

Mathematics

B. Course ID:

MATH V03A

C. Course Title: Intermediate Algebra: Module I

D. Units: 1.00

E. Hours:

Lecture/wk: 1.00

Total Semester Contact Hours (based on 16 week semester): 17.50

F. Prerequisite(s):

MATH V01 or MATH V01A-V01E or MATH V11B or 1 year of high school beginning algebra with grade of C or better

G. Corequisite(s):

None

H. Recommended preparation:

None

I. Description:

This course is the first of a five-course sequence (MATH V03A-V03E). Completion of all five courses is equivalent to MATH V03. Topics will include compound inequalities, absolute value equations and inequalities, word problems using inequalities, and functions. Under the guidance of the instructor, students will complete self-paced interactive competency-based computer assignments, including possible review of previously learned topics. More than one course in the sequence may be completed within the term.

J. Transfer Status:

Non Transferable

**II. Course Objectives**

Upon successful completion of this course, the student will be able to demonstrate the following measurable skills and abilities:

Upon successful completion of this course, the student will be able to demonstrate the following measurable skills and abilities:

Solve linear equations involving absolute values.

Solve and graph compound inequalities.

Determine if a relation is a function.

Evaluate functions using appropriate notation.

### III. Course Content

- A. Compound inequalities, their graphs and their solutions in interval and set notation.
- B. Absolute value equations and inequalities.
- C. Word problems using inequalities.
- D. Relation and function definitions, domain and range.
- E. The algebra of functions.

### IV. Assignments

- A. **Representative In-class Assignments** that develop critical thinking (required for degree applicable courses) may include, but are not limited to:

Student Activities:	Write composition(s) and/or report(s) and/or essay(s)	Write research paper(s) and/or term paper(s) and/or other paper(s)	Solve computational and/or symbolic problems	Conduct and experiment or survey	Engage in analytical discussions	Prepare oral presentations	Develop skills in performance/activities	Create and analyze projects	Other (specify below)
<b>Critical Thinking Skills</b>	<b>Student Activities involved in each skill</b>								
Evaluating			X		X				
Appraising and assessing			X		X				
Justifying	X		X		X				
Synthesizing			X		X				
Developing and formulating			X		X				
Analyzing	X		X		X				
Solving problems	X		X		X				
Applying principals	X		X		X				
Comprehending concepts	X		X		X				
Identifying knowledge	X		X		X				
Other (describe):									
Comments:									

### B. Representative Out-of-class Assignments

Reading: Students will progress at their own pace to read instructional material either in the software program or in supplemental texts, equivalent to approximately two chapters.

Writing: Examinations and homework may include writing definitions, justifications, and/or explanations.

Problem solving: Work includes use of interactive computer software. Students will be assigned problems for their skill level, building to a level that demonstrates mastery in course content. Students will start with as few as five problems per topic to as many as 50 or more.

### V. Representative Instructional Modes -

Lecture  
Audio Visual Presentations  
Collaborative Group Work  
Computer-aided Presentation/Assignments  
Demonstrations  
One-on-one conference

**VI. Evaluation Methods** - Substantively related to the course objectives.

**A. Writing.**

written homework

**B. Problem Solving.** Computational or non-computational problem-solving demonstrations, including:

exam(s)  
quiz(zes)  
homework problem(s)  
other (specify) : interactive computer assignments

**C. Skills demonstrations.** Including:

other (specify) : interactive computer assignments

**D. Objective examinations.** Including:

multiple choice  
true/false  
matching items  
completion

**VII. Textbooks**

List representative textbooks, manuals, and other instructional materials/publications, including those materials to be put in the Library/LRC(Learning Resources Center).

<b>Author(s)</b>	<b>Title(s)</b>	<b>Publisher(s)</b>	<b>Date(s)</b>
Elayn Martin-Gay	Intermediate Algebra	Pearson	2009
Miller/O'Neill	Intermediate Algebra, 2e	McGraw-Hill	2008

Other appropriate publications/instructional materials such as representative recommended readings, repertoire, non-print media (eg., websites, audio/visual recordings), and software.

**Other**

Other Appropriate Publications: Interactive Math Software (Required)  
Discipline-specific websites: Yes