Palo Verde College

One College Drive, Blythe CA 92225
(760) 921-5500

Course Control Number: CCC000507342		
Course Outline Approval Dates		
Modality	Curriculum Committee	Board of Trustees
Face-to-face		
Correspondence Ed.	12/11/14	1/20/15
Distance Ed.		

Course Information

COURSE OUTLINE OF RECORD

Course Initiator: Paul Shibalovich, MA			
CB01 - Subject and Course #: MAT 083			
CB02 - Course Title: Elementary Algebra			
New Course: ☐	Non-Substantial: ☑	Substantial: ☐	
Articulation Request: ☐ UC	☐ CSU	☐ CSU-GE	☐ IGETC
Lecture Hours: 54	Laboratory Hours:	Clinical/Field Hours:	
CB06/CB07: Course Units: 3.0			
Prerequisites/Co-requisites/Advisories: MAT 081 or MAT 082			

CB03 - TOP Code:	1701.00 - Mathematics, General
CB04 - Credit Status:	C - Credit - Not Degree Applicable
CB05 - Transfer Status:	C - Not Transferable
CB08 - Basic Skills Status:	B - Course is a basic skills course
CB09 - SAM Priority Code:	E - Non-Occupational
CB10 - Cooperative Work:	N - Is not part of Cooperative Work Experience Education Program
CB11 - Course Classification:	Y - Credit Course
CB13 - Approved Special:	N - Course is not a special class
CB21 - Prior Transfer Level:	B - Two levels below transfer
CB22 - Noncredit Category:	Y - Credit Course, Not Applicable
CB23 - Funding Agency:	Y - Not Applicable
CB24- Program Status:	2 - Not Program Applicable
Transfer Request:	C= Non-Transferable

Please select the appropriate box(s) of the modalities in which this course will be offered, and fill out the appropriate sections for that mode.

☐ Face-to-Face – Section B

☑ Correspondence Education – Section C

☐ Distance Education – Section D

JUSTIFICATION OF NEED:

MAT 083 is a prerequisite for MAT 086/088. It provides students the necessary preparation for the subsequent course.

CATALOG DESCRIPTION:

Properties of real numbers, operations with real numbers, variable expressions, operations with polynomials, factoring polynomials, operations and equations with rational expressions, linear equations in two variables, inequalities, roots and radicals.

COURSE OBJECTIVES:

1) Do calculations involving signed numbers.
2) Solve integer, fractional, decimal, quadratic, and simple rational equations.
3) Solve inequalities in one variable and graph its solution set.
4) Simplify square roots; add and subtract square root expressions.
5) Simplify complex fractions.
6) Plot points and graph linear equations.
7) Find slope and write equation of a line.
8) Evaluate exponential expressions; add, subtract, multiply, and divide exponential expressions.
9) Evaluate polynomials; add, subtract, multiply, and divide exponential expressions.
10) Factor binomials, trinomials, and polynomials in four terms.
11) Solve motion, percent, geometry, and work problems.

STUDENT LEARNING OUTCOMES:

1) Transition from numerical notation of arithmetic to more sophisticated symbolic notation of algebra.
2) Demonstrate understanding of the connection between algebra and Cartesian geometry.
3) Demonstrate the ability to factor binomials, trinomials, and polynomials in four terms.

A. COURSE OUTLINE AND SCOPE

1. Outline of topics or content:

a) Integers and real numbers.
b) Fractions with variables and algebraic expressions.
c) Solving equations and inequalities.
d) Exponents and polynomials.
e) Factoring polynomials and solving quadratic equations.
f) Rational expressions.
g) Real numbers and radicals.

2. If a course contains laboratory or clinical/field hours, list examples of activities or topics:

This course does not have a laboratory.

3. Examples of reading assignments:

Students are expected to read course textbook to improve his/her performance. In addition, students are required to read, analyze, and solve application problems throughout the semester.

4. Examples of writing assignments:

Writing assignments are required and may include, but are not limited to: exams, projects, and quizzes.

5. Appropriate assignments to be completed outside of class:

Homework exercises, math worksheets, and chapter reviews as directed by the instructor.

6. Appropriate assignments that demonstrate critical thinking:

Applications involving percent, motion, geometry, and work problems.

7. Other assignments (if applicable):

Other assignments may include, but are not limited to: pretest, post-test, and supplementary exercises as directed by the instructor.

☑ Check if Section B is not applicable

B. FACE-TO-FACE COURSE SECTIONS:

Face-to-face education
Is a mode of delivery in which instruction is delivered in a traditional classroom setting, with instructor and students located simultaneously in the same classroom facility.

1. Describe the methods of instruction.

2. Describe the methods of evaluating of student performance.

3. Describe how the confidentiality of the student's work and grades will be maintained.

4. If the course has a lab component, describe how lab work is to be conducted and how student work is to be evaluated.

NOTE: Students will be encouraged by instructors of this course to direct themselves to the College's Disabled Students' Programs and Services (DSP&S) department if they believe they have a learning disability.

☐ Check if Section C is not applicable

C. CORRESPONDENCE EDUCATION COURSE SECTIONS (Correspondence, hybrid correspondence)

Correspondence education
is a mode of delivery in which instructional materials are delivered by mail, courier or electronic transmission to students who are separated from the instructor by distance. Contact between instructor and students is asynchronous.

Hybrid correspondence education
is the combination of correspondence and face-to-face interaction between instructor and student.

1. Describe the methods of instruction.

Methods of instruction for this course will include, but are not limited to: instructional materials delivered by mail, video presentations, phone calls, textbook reading assignments, practice worksheets, and supplemental study guides.

2. Describe the methods of evaluating student performance.

Evaluation of student performance may include, but is not limited to: homework assignments, exams, quizzes, and projects as directed by the instructor.

3. Describe how regular, effective contact between the instructor and a student is maintained.

Regular, effective contact includes, but is not limited to: exams, quizzes, graded homework assignments, graded projects, syllabus receipt, office hours, emails, letters, notes, phone calls, student progress reports, and communication via the Bridge interface.

4. Describe procedures that help verify the individual submitting class work is the same individual enrolled in the course section.

Consistent with policy elements listed in the ACCJC's "Policy on Distance Education and on Correspondence Education," the College verifies the identity of a student who participates in class or coursework by using, at the College's discretion, such methods as a secure log-in and password, proctored examinations, or other technologies or practices that are developed and effective in verifying each student's identification.

5. Describe procedures that evaluate the readiness of a student to succeed in an online, ITV or hybrid course section.

The procedure might consist of a short assessment questionnaire prepared by the instructor and self-administered by the student. The questionnaire would evaluate areas such as working independently, adhering to time-lines, and familiarity with working online and with computer technology. The student would use the resulting score to evaluate his or her readiness to take the course in a correspondence or hybrid correspondence instructional mode.

6. Describe how the confidentiality of the student's work and grades will be maintained.

Instructors shall make reasonable efforts to protect the confidentiality of students' grades and graded work consistent with practices described in the Family Education Rights and Privacy Act (FERPA).

7. If the course has a lab component, describe how lab work is to be conducted and how student work is to be evaluated.

This course does not have a laboratory.

8. If the course requires specialized equipment, including computer and computer software or other equipment, identify the equipment, and describe how it is to be accessed by students.

This course requires a simple or scientific calculator. Computer with Hawkes Learning System software is not required but is beneficial to enhance student's learning experience.

Note: Students will be encouraged by instructors of this course to direct themselves to the College's Disabled Students' Programs and Services (DSP&S) department if they believe they have a learning disability.

☑ Check if Section D is not applicable

D. DISTANCE EDUCATION COURSE SECTIONS (online, ITV, hybrid)

Online education
is a mode of delivery in which all instruction occurs online via the Internet. Student and instructor access to email and the Internet is required. Students are required to complete class work using email, chat rooms, discussion boards and other instructional online venues.

Interactive television (ITV)
is a mode of synchronous delivery in which instruction occurs via interactive television (closed circuit).

Hybrid instruction
is a combination of face-to-face instruction and online instruction.

1. Describe the methods of instruction.

2. Describe the methods of evaluating of student performance.

3. Describe how regular, effective contact between the instructor and a student is maintained.

4. Describe procedures that help verify the individual submitting class work is the same individual enrolled in the course section.

5. Describe procedures that evaluate the readiness of a student to succeed in a correspondence or hybrid correspondence course section.

6. Describe how the confidentiality of the student's work and grades will be maintained.

7. If the course has a lab component, describe how lab work is to be conducted and how student work is to be evaluated.

8. If the course requires specialized equipment, including computer and computer software or other equipment, identify the equipment, and describe how it is to be accessed by students.

Note: Students will be encouraged by instructors of this course to direct themselves to the College's Disabled Students' Programs and Services (DSP&S) department if they believe they have a learning disability.

E. REPRESENTATIVE TEXTBOOKS AND OTHER READING AND STUDY MATERIALS:
List author, title, and current publication date of all representative materials.

John Redden, Elementary Algebra, 1st Edition, 2011, ISBN 978-1-4533-2737-1
D. Franklin Wright, Introductory Algebra, 6th Edition, 2009, ISBN 978-1-932628-32-6

SIGNATURES

COURSE INITIATOR: _____ **DATE:** _____

DIVISION CHAIR: _____ **DATE:** _____

LIBRARY: _____ **DATE:** _____

CHAIR OF CURRICULUM COMMITTEE: _____ **DATE:** _____

SUPERINTENDENT/PRESIDENT: _____ **DATE:** _____