

MAT 092
INTRODUCTORY ALGEBRA SYLLABUS
PARADISE VALLEY COMMUNITY COLLEGE
SUMMER 2008

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TEXT:

Algebra Introductory and Intermediate 4th Edition Aufman Barker and Lockwood
(Course code: NICOL-95DACE91A76770)

MATERIALS & OTHER RESOURCES:

Texas Instruments TI-83, or TI-84 or suitable Graphing Calculator.

Learning Support Center (LSC) Building E, Room 180
Monday - Thursday 8:00 AM – 7:00 PM
Drop-in and individual Tutoring

MAT 108. This course provides structured tutorial assistance and math study skills to help students achieve success in a mathematics course in which they are concurrently enrolled. Mathematics study skills are emphasized. This course may be repeated for a maximum of 10 credits.
Co-requisites: Concurrent enrollment in MAT092.

DVDs of each lesson are available for checkout in the library, for on campus viewing in the LSC and for your own copy in the Media Center in the library.

CLASS LOCATION:

Building G, Room 137

CLASS TIMES:

6:30 PM - 9:10 PM

SECTION NUMBER:

7116

COURSE DESCRIPTION:

Linear behavior; linear equations and inequalities in one and two variables; graphs; systems of equations in two variables; function notation, graphs, and data tables; operations on polynomials; properties of exponents; applications. Prerequisites: Grade of "C" or better in MAT082, or MAT102, or equivalent, or satisfactory score on District Placement exam.

COURSE COMPETENCIES:

At the end of the course, the student will be able to:

Solve linear equations.

Graph linear functions given data tables or an equation.

Determine and interpret the domain and range of a function given its graph.

Determine and interpret the slope and intercepts of a linear equation or function.

Determine and explain the relationship between the slopes of perpendicular and parallel lines.

Given sufficient information or data, write a linear equation.

Use function notation to represent and evaluate linear relationships.

Solve linear inequalities and graph solutions on the real number line and on the coordinate plane.

Solve linear systems in two variables by graphing, substitution, and elimination methods.

Simplify polynomial expressions.

Perform operations on polynomials (add, subtract, multiply, divide, powers).

Model and solve real-world problems using linear equations, proportions and systems of linear equations.

PVCC MATHEMATICS/COMPUTER SCIENCE DIVISION EXPECTED STUDENT BEHAVIOR FOR SUCCESS

- As a college student you need to discipline yourself as to your study habits and classroom behavior. Get to class at least a couple of minutes early. You are expected to at least be on time for each class and remain seated for the entire class. If you must leave early, it is considered only common courtesy to leave quietly and to have informed your instructor beforehand. Please leave beepers and cell phones off. Inattentiveness, disruptiveness or extensive tardies/absences may affect a student's grade.
- If for some reason you decide to drop this course, you are advised to discuss it first with your instructor. If you are having difficulties, please see your instructor before giving up or dropping the class. You will be dropped for non-attendance or excessive absences. Excessive absences will be considered, missing the equivalent of 2 weeks without instructor knowledge or prior approval. A grade of W will be assigned if you are dropped before 6/23/2008. If you drop after that date your drop grade will reflect your status at that time, you will get a W if you are passing and a Y if you are failing.
- Undergraduate study is time consuming. You can anticipate spending two or more hours of study, reading and research for every hour you spend in the classroom. To earn three hours of academic credit, classes must meet for a minimum of forty-five (45) classroom hours. Take these demands seriously as you plan your academic schedule.
- Have your homework completed before class starts. Please feel free to contact me whenever you run into difficulty, and make use of the LSC.
- Have questions ready from the previous night's homework and be seated when class begins.
- Continuously self test.
- Make it a goal to attend all classes and stay the entire class period. There is a high correlation between regular class attendance, punctuality, and good grades. Even though you are absent for any reason, you are still responsible for all homework and material covered in class. Get notes from another student for classes missed.

- Ask questions – participate, don't wait for someone else to ask questions.
- Be prepared as if you expect a quiz every day.
- It is the student's responsibility to understand and follow all of the policies found in the College Catalog and Student Handbook.
- The student is responsible for all information contained in the syllabus.
- Make note of Article III, Section B, paragraph 15, page 171 in the PVCC Student Handbook regarding the college's policy on the misuse of computer technology.
- Make note of the college's policy on Academic Misconduct Section 2.3.11 found on pages 149 through 150.
- Students with disabilities who believe that they need accommodations in this class are encouraged to contact the Disability Resource Center in the Gina Kranitz Student Center, Room 119 or call 602-787-7170

ALL PROVISIONS IN THIS SYLLABUS ARE SUBJECT TO REVISION BY THE INSTRUCTOR. SUCH REVISIONS, IF ANY, WILL BE ANNOUNCED IN CLASS AND POSTED ON THE INSTRUCTOR'S WEBSITE AT THE FOLLOWING ADDRESS:

<http://www2.pvc.maricopa.edu/~nicoloff/changes.html>

CLASS ATTENDANCE:

Class attendance and punctuality is required !! Read the PVCC school catalog carefully to become familiar with policies on withdrawals and incompletes. Attendance begins on the first scheduled day of class. **THERE WILL BE NO MAKE-UP TESTS. STUDENTS MUST BE PRESENT ON TEST DAYS.**

ASSIGNMENTS:

Assignments will be given on a daily basis and are required. They will be worth 100 pts. toward the final grade. The assignments will consist of the odd problems and selected even problems in your Text. There are 10 assignments, worth 100 points toward the final homework grade. Homework will be collected at the beginning of class on the day it is due. Late homework will not be accepted.

TESTING:

There will be four tests, worth 150 pts. each and 5 unannounced quizzes worth 100 pts. (20 points each) **Note: There will be no make-up for in-class tests or Quizzes!!**

GRADING:

Tests	600	A=90-100%	720-800 pts
Quizzes	100	B=80-89%	640-719 pts
Homework	100	C=70-79%	560-639 pts
Total	800	D=60-69%	480-559 pts

COURSE SCHEDULE

DATE OF CLASS MEETING	SECTIONS TO BE COVERED	TOPICS TO BE COVERED	ASSIGN # DUE DATE
(M) 6/2	Introduction 1.4	Variable Expressions	#1 6/4
(W) 6/4	R.1 2.1	Variable Expressions Introduction to Equations	#2 6/9
(M) 6/9	2.2 2.3	General Equations Translating Sentences into Equations	#3 6/11
(W) 6/11	2.4 2.5	Mixture and Uniform Motion Problems First Degree Inequalities	#4 6/16
(M) 6/16	R.2 REVIEW	Equations and Inequalities REVIEW	#5 6/23
(W) 6/18	4.1 Test I	The Rectangular Coordinate System TEST I CHAPTER 2, 1.4 & R.1	#5 6/23
(M) 6/23	4.2 4.3	Introduction to Functions Linear Functions	#6 6/25
(M) 6/23	LAST DAY TO WITHDRAW WITHOUT INSTRUCTOR'S SIGNATURE		
(W) 6/25	4.4 4.5 4.6	Slope of a Straight Line Finding Equations of Lines Parallel and Perpendicular Lines	#7 6/30
(M) 6/30	4.7 R.3 5.1	Inequalities in two variables Linear Equations in Two Variables Solving Systems of Linear Equations by Graphing and by the Substitution Method	#8 7/2
(W) 7/2	5.2A REVIEW	Solving Systems of Linear Equations in Two Variables by the Addition Method REVIEW	#9 7/9
(M) 7/7	5.3 TEST II	Application Problems TEST II CHAPTER 4 & R.2	#9 7/9
(W) 7/9	6.1 6.2 6.3	Exponential Expressions Introduction to Polynomial Functions Multiplication of Polynomials	#10 7/14
(M) 7/14	LAST DAY TO WITHDRAW WITH INSTRUCTOR'S SIGNATURE		
(M) 7/14	6.4A Review	Division of Polynomials REVIEW	#11 7/21

(W)7/16

6.4B
TEST III

Division of Polynomials
TEST III CHAPTER 5 & R.3

#11 7/21

(M) 7/21

REVIEW

REVIEW

(W) 7/23

TEST IV

TEST IV CHAPTER 6 & R.4

STUDENT INFORMATION/SYLLABUS ACKNOWLEDGEMENT FORM

Course Prefix & Number _____ Semester _____
Lecture Section Number _____ Today's Date _____
Name (print) _____ Phone # (____)- _____
e-mail address _____ 4 Digit Personal ID # _____

Previous Math courses	High School	College	Final grade

Why are you taking this course? What is it about this course that you need for your degree program?

What are you going to do to succeed in this class? (*ie:*When are you going to do your homework? Will you join a study group? Will you attend every class?)

What would you like me to do to help you succeed in this class?

Other comments:

SYLLABUS ACKNOWLEDGMENT/RECEIPT

I have received a copy of the syllabus for this course, and the instructor has discussed the contents of the syllabus. I have read the syllabus and understand the course content, class procedures, and what is expected of me in this class.

Student Signature

