Beginning Algebra

Course. College Math Preparation Level 2: Beginning Algebra (Math D212.64).

Time and Location. Spring 2016, MW, 6:30 pm – 8:45 pm, Room: S-45.

Instructor. Francisco Villarroya Alvarez.
Office hours. M 2:45-3:45 pm; W 2:45-3:45 pm at the Math, Science and Technology Resource Center (S43). Additional hours by appointment.

Prerequisites. Math 210 or an equivalent course with a grade of C or better.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Textbook. Intermediate Algebra for College Students, 6th Ed., by Blitzer.

Required Materials. A scientific calculator is recommended.

Course Description.

- Linear functions, linear equations and linear systems. Applications to problems.
- Polynomial functions. Development of models of real world applications and interpretation of their characteristics. Radical and Quadratic functions.

Student Learning Outcome.

- Evaluate real-world situations. Apply linear and quadratic function models appropriately.
- Analyze, interpret, and communicate results of linear and quadratic models in a logical manner from four points of view: visual, formula, numeric, and written.
- Demonstrate an appreciation and awareness of algebraic applications in students' daily lives.

Assesment. Two one-class-hour midterm examinations will be given in class. These tests will be announced in advance.

A mandatory two-hour comprehensive final exam will be given at the end of the quarter. The **final exam** will take place on Wednesday 22nd of June 2016, 6:15pm - 8:15pm.

The contribution of each exam to the final grade will be as follows: 25% each of the two midterms and 50% for the final exam.

Grading scale. The following table shows the minimum percentage needed to guarantee the indicated grade:

Letter Grade	Percentage	Letter Grade	Percentage
A^+	[97, 100]	B^+	[87, 90)
A	[93, 97)	B	[83, 87)
A^-	[90, 93)	B^-	[80, 83)
C^+	[72, 80)	D	[50, 65)
C	[65, 72)	E	[0, 50)

Tentative Schedule. Classes will take place according to the following approximate timetable:

Week	Lecture	Task	Test
1	Algebra, Models and Problem Solving (1.1r, 1,2r, 1,3r, 1.4r)		
2	Algebra, Models and Problem Solving (1.5, 1.6)	Prob	
3	Functions and Linear Functions (2.1, 2.2, 2.3, 2.4, 2.5)		
3	Systems of Linear Equations (3.1, 3.2)		
5	Inequalities and Problem Solving (4.1, 4.4)		Test 1
6	Polynomials (5.1, 5.2)		
7	Polynomials (5.3)	Prob	
8	Polynomials (5.4, 5.5, 5.7)		
9	Radicals and Rational Exponents (7.1, 7.7)		Test 2
10	Quadratic Equations and Functions (8.1, 8.2)		
11	Quadratic Equations and Functions (8.3)	Review	
12			Exam

Tutorials. Tutorial assistance often means the difference between students earning a passing or failing grade. Do not hesitate to come to my office hours to discuss homework or any aspect of the course. In addition, the Math and Science Tutorial Center (building S43) offers free individual and group tutoring. Please take advantage of these free services.

Accommodations for students with disabilities. Disability Support Services (DSS) provides support services for students with disabilities. For more information or to make an appointment to request services, contact DSS at 408-864-8753.