

Beginning Algebra

Course. Beginning Algebra (Math 212.19).

Time and Location. Fall 2015, MTWThF, 12:30 pm – 1:20 pm, Room: MQ-2A.

Instructor. Francisco Villarroya Alvarez.

Office hours. W 10-11am; 2-3pm

Prerequisites. Math 212 or an equivalent course. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Hours. Five one-hour lectures per week (60 hours total per quarter).

Textbook. Intermediate Algebra for College Students, 5th Ed., by Blitzer.

Required Materials. A scientific calculator is recommended.

Course Description.

- Linear functions, linear equations and linear systems. Applications to problems.
- Polynomials. 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.

Grading Criteria. Two one-class-hour midterm examinations will be given in class. A mandatory comprehensive final exam will be given at the end of the quarter.

The contribution of each exam to the final grade will be as follows:

- Midterm tests: 36%
- Final exam: 64%

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)	Rev/Prob	
3	Functions and Linear Functions (2.1, 2.2, 2.3-)		
4	Functions and Linear Functions (-2.3, 2.4, 2.5)		
5	Systems of Linear Equations (3.1, 3.2)		Test 1
6	Inequalities and Problem Solving (4.1, 4.4)	Rev/Prob	
7	Polynomials (5.1, 5.2, 5.3-)		
8	Polynomials (-5.3, 5.4, 5.5)		
9	Polynomials (5.6, 5.7)		Test 2
10	Radicals and Rational Exponents (7.1, 7.7)		
11	Quadratic Equations and Functions (8.1, 8.2, 8.3-)		
12	Quadratic Equations and Functions (-8.3)	Rev/Prob	Exam

Extra Help. The Math and Science Tutorial Center (S43) offers free individual and group tutoring. Please take advantage of these free services. 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 a homework problem or any aspect of the course.

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.