

Mathematics 212-01351
Beginning Algebra
Winter Quarter 2015
De Anza College

Instructor: Robert Ramsey

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Lecture: Mon thru Fri 10:30 am to 11:20 am
De Anza Main Campus
Room S45

Office Hours: Mon thru Thu, 11:30 am to 12:30 pm
De Anza Science Building
Additional hours to be arranged

Text: Intermediate Algebra for College Students, 5/e
Blitzer, Robert
Textbook ISBN-13: 978-0-13-600762-3

Publisher: Pearson Prentice Hall

Prerequisites: Mathematics 210 with a grade of C or better

About the Course: Learning algebra takes time and sustained, diligent effort. Math 212 is the first course in the algebra sequence that focuses on the study and applications of linear functions, quadratic functions, linear systems and solutions to problems. Emphasis is on the development of models of real world applications and interpretation of their characteristics. Expect to spend a minimum of eight hours per week, outside of the classroom, studying algebra.

The topics include linear equations and inequalities, development and use of formulas, algebraic expressions, systems' of equations, operations on polynomials, factoring, graphs, and an introduction to quadratic equations.

Student Learning Outcomes (SLO):

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

II. Course Objectives

A. Develop, throughout the course as applicable, systematic problem solving methods

B. Explore the function concept algebraically, numerically, verbally and graphically

C. Explore the graphical and numerical characteristics of linear relationships and describe their meaning in the context of a problem

D. Develop linear function models to solve problems

E. Use systems of two linear equations to solve real world problems

F. Explore the graphical and numerical characteristics of quadratic relationships and describe their meaning in the context of a problem

G. Develop quadratic function models to solve problems

H. Use inequalities to solve real world problems

I. Investigate, throughout the course as applicable, how mathematics has developed as a human activity around the world

Study Group Information: To be arranged

Tests: We will cover chapter's one thru five and chapter's seven and eight of the Blitzer Intermediate Algebra, 5/e textbook. There will be one exam after chapters two, four, seven and eight for a total of four chapter exams. Each exam will last approximately 50 minutes.

Homework: Homework is intended as a means of increasing every students understanding, and as a means of mastering the course material. Successful completion of every homework assignment should not be interpreted, in and of itself, as sufficient effort to pass Math 212. Every student is required to register at www.coursecompass.com with the course i.d. ramsey49872. All homework assignments are completed online with the use of MyMathLab.

Quizzes: Quizzes will be completed online and in-class throughout the winter quarter. Quizzes online will be extra credit; whereas, quizzes in class will count towards your final in-class quiz grade. In class quizzes will be pop quizzes; however, expect approximately one pop-quiz per week.

Class Participation: Attendance during lecture is mandatory and leaving class early is highly discouraged. Successful performance in this course requires classroom attendance, completion of all in-class assignments, as well as homework, and serious effort on the exams and the final. Poor attendance and unruly or disruptive behavior will be reflected in said students' class participation grade.

Final: There will be a comprehensive final exam at the end of the winter 2015 quarter that will contain material from all chapters covered in the Blitzer Intermediate Algebra, 5th edition, textbook. The final exam is Friday, March 27, 2015 from 9:15 am to 11:15 am in Room S45.

Grading:

Chapter exams (4 @ 10% each)	40 %
Homework	25 %
Quizzes (In-Class)	10 %
Quizzes (Online)	10% (Extra Credit)
Final	25 %
TOTAL	100 %

Grades will be as follows

A	=	90.00 to 100.00%
B	=	80.00 to 89.99%
C	=	70.00 to 79.99%
D	=	55.00 to 69.99%
F	=	less than 55.00%

Academic Integrity: Any credible accusation of academic dishonesty, no matter how minor, will be investigated, and if found to be meritorious, will be dealt with severely. Students caught cheating will receive an F for that assignment and notice of said offense will be forwarded to the chairman of the department of mathematics and the Vice President for Academic Affairs for further punitive action.

Disruptive Behavior: Unruly or disruptive behavior, to include incessant talking, texting while class is in-session, rude, profane, or vulgar language, threatening or violent behavior, and/or any form of disrespect, directed at the instructor or towards fellow classmates will be dealt with severely. Such behavior will result in the immediate and permanent removal of the offending individual from this course.

Note: TI-83, TI-84, or TI-89 Graphing Calculator(s) as well as other calculators are permitted in this course

Important Dates:

Monday, Jan. 5 :: First day of Winter Quarter 2015.

Saturday, Jan. 17 :: Last day to [add](#) quarter-length classes. *Add date is enforced.*

Sunday, Jan. 18 :: Last day to [drop](#) for a full [refund or credit](#) (quarter-length classes). *Drop date is enforced.*

Monday, Jan. 19 :: Last day to [drop](#) a class with no record of grade. *Drop date is enforced.*

Friday, Jan. 30 :: Last day to [request pass/no pass](#) grade. *Request date is enforced.*

Friday, Feb. 27 :: Last day to [drop](#) with a "W." *Withdraw date is enforced.*

Monday, Jan. 19 :: Holiday: Observance of Martin Luther King's Birthday

Friday, Feb. 13 :: Holiday: Observance of Abraham Lincoln's Birthday

Saturday-Sunday, Feb. 14-15 :: Holiday: Presidents' Day Weekend (no classes)

Monday, Feb. 16 :: Holiday: Observance of George Washington's Birthday

March 24-27 :: [Final Exams](#)

Friday, March 27 :: Last day to [file for a winter degree or certificate](#).

Friday, March 27 :: Last day of Winter Quarter

Monday, April 6 :: First day of Spring Quarter