## Syllabus Math 212.01 Beginning Algebra

## Math 212 Beginning Algebra

Section 01 CRN 01293 MTWThF 7:30-am-8:20 am S46
Instructor: Greg Stachnick

## Contact Information:

Email: StachnickGregory@fhda.edu
Phone: 408-857-6421
Office Hours:

| Tuesday | 9:45 am $-10: 45 \mathrm{am}$ |
| :--- | :--- |
| Wednesday | 9:45 $\mathrm{am}-10: 45 \mathrm{am}$ |
|  | Or by appointment |
|  | Location: Math and Science Tutorial Center (S43) |

## Course Description:

Application of linear functions, quadratic functions and linear systems to problems. Emphasis on the development of models of real world applications and interpretation of their characteristics.

Prerequisite: Completion of Math 210 with a grade of C , or equivalent, or qualifying score on the Placement Test within the last calendar year.

## Textbook:



1. Intermediate Algebra for College Students, De Anza Custom $5^{\text {th }}$ Edition By Blitzer (sold in the De Anza College Bookstore)
2. Student Access Code to MyMathLab (Required)
3. A Scientific Calculator is recommended (i.e. TI-30XIIS)

The Student Access Code to MyMathLab includes an eBook. Purchase of the hardcopy textbook is optional. For compatibility reasons, this Student Access Code must be purchased from the De Anza bookstore or from the Pearson website for MyMathLab.

## Student Learning Outcomes:

1. Evaluate real-world situations and distinguish between and apply linear and quadratic function models appropriately.
2. Analyze, interpret, and communicate results of linear and quadratic models in a logical manner from four points of view - visual, formula, numerical, and written.
3. Demonstrate an appreciation and awareness of applications in their daily lives.

## Grading

1. Homework: Homework will be done in MyMathLab. The MyMathLab Course ID and specific registration instructions will be provided separately. Proficiency in mathematics comes only with frequent practice. Attending classes and completing homework assignments on time is very important in accomplishing this goal.

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2. Quizzes: Wednesday is Quiz Day. There will be a short quiz each Wednesday (see tentative course schedule below) based on the homework assignments for the week. Weeks for which a midterm has been scheduled will not have quizzes. If you have done all of the homework, you will be very well prepared. The lowest two quiz grades will be discarded (best five out of seven).
3. Exams: There will be three midterms and a cumulative final (see schedule below for dates).
4. Projects: There will be in class opportunities for extra credit, stay tuned and be there.
5. Point Distribution

| i. Midterms: | 300 Points (100 points each) |
| ---: | :--- |
| ii. Quizzes | 100 Points (Best 5 out of 7,20 points each) |
| iii. Homework | 100 Points |
| iv. Final | 200 Points |

## 6. Letter Grade Breakdown

A. 100\%-90\%
B. $89 \%-80 \%$
C. $79 \%-70 \%$
D. $69 \%-60 \%$
F. 59\% or below


## Additional Resources

Free Tutoring: The Math and Science Tutorial Center in Room S34 offers free tutoring on Mondays-Thursdays from 9:00 AM-5:30 PM and Fridays 9:00 Am - 12:00 noon. More information can be found here: http://www.deanza.edu/studentsuccess/mstrc/

Supplemental Resources: Search the web for specific class topics. You will find lots of completed problems, additional written and video explanations and some very clever YouTube videos: http://justmathtutoring.com/page17.html

## Academic Integrity:

Cheating will not be tolerated and will result in a grade of 0 for the assignment, quiz or exam and referral to the dean for academic discipline. Cheating includes, but is not limited to: copying from other students, permitting other students to copy from you, plagiarism, submitting work that isn't your own, using notes that don't meet permitted specifications, continuing to write/erase on an exam/quiz after permitted time has ended, changing your exam/quiz paper after it's been graded and then requesting a grading correction. For more information about De Anza College's policy on academic integrity see: https://www.deanza.edu/studenthandbook/academic-integrity.html

## Student Conduct:

A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. Cell phones must be silenced and stowed away.

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## Attendance:

Regular class attendance is expected. Registered students missing any day the first week, without first notifying the instructor will be dropped from the course. After the first week, a student may be dropped from the class if she/he is absent three times, without first notifying the instructor. If you miss a quiz because you skipped class you will receive a zero for that assignment. Dropping or withdrawal from the class due to hardship is the students' responsibility. A student who stops coming to class and does not drop will receive an " $F$ " grade. It is the students' responsibility to inform the instructor if she/he is going to be absent and is responsible for any material covered/announcements made on the day of the absence.

## Communication:

Course Studio will be used for communication of announcements. It will be important to login to MyPortal at least daily to check for new course information regarding extra credit assignments, quizzes and examinations. Class lecture notes will also be published on Course Studio. To access Course Studio, login to MyPortal and select the Students tab. Scroll to the bottom of the page and you will see the Course Studio pane on the lower right. Then select the entry for this course to see announcements, reference links and inspect files.

Any student email correspondence with the instructor should include the course number and section number (i.e. Math 212.01) in the subject line.

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## Blitzer Chapter and Section Outline

Chapter 1 - Algebra, Mathematical Models, and Problem Solving
1.1 Algebraic Expressions and Real Numbers
1.2 Operations with Real Numbers and Simplifying Algebraic Expressions
1.3 Graphing Equations
1.4 Solving Linear Equations
1.5 Problem Solving and Using Formulas
1.6 Properties of Exponents
Chapter 2 - Functions and Linear Functions
2.1 Introduction to Functions
2.2 Graphs of Functions
2.3 The Algebra of Functions
2.4 Linear Functions and Slope
2.5 Point-Slope Form of the Equation of a Line
Chapter 3 - Systems of Linear Equations
3.1 Systems of Linear Equations in Two Variables
3.2 Problem Solving and Business Applications Using Systems of Equations
Chapter 4 - Inequalities and Problem Solving
4.1 Linear Inequalities
4.4 Linear Inequalities in Two Variables
Chapter 5 - Polynomials, Polynomial Functions, and Factoring
5.1 Introduction to Polynomials and Polynomial Functions
5.2 Multiplication of Polynomials
5.3 Greatest Common Factors and Factoring by Grouping
5.4 Factoring Trinomials
5.5 Factoring Special Forms
5.6 A General Factoring Strategy
5.7 Polynomial Equations and Their Applications
Chapter 7 - Radicals, Radical Functions, and Rational Exponents
7.1 Radical Expressions and Functions
7.7 Complex Numbers
Chapter 8 - Quadratic Equations and Functions
8.1 The Square Root Property and Completing the Square
8.2 The Quadratic Formula
8.3 Quadratic Functions and Their Graphs

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Tentative Winter Class Schedule
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|  | Monday | Tuesday | Wednesday | Thursday | Friday |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week 1 April | $\begin{array}{ll}  & 4 \\ 1.1-1.3 & \end{array}$ | $\begin{array}{ll}  & 5 \\ 1.4 & \end{array}$ |  | $\begin{array}{ll}  & 7 \\ 1.5 & \end{array}$ | 1.6 |
| Week 2 April | $\begin{array}{ll} \hline & 11 \\ 1.6 & \end{array}$ | $\begin{array}{ll} \hline & 12 \\ 2.1 & \end{array}$ | ```2.1 \\ Quiz 2``` | $14$ $2.2$ | 2.215 |
| Week 3 April | $\begin{array}{ll}  & 18 \\ 2.2,2.3 & \end{array}$ | $\begin{array}{ll} \hline & 19 \\ 2.3 & \end{array}$ | $\begin{array}{ll} \hline & 20 \\ 2.3,2.4 & \\ \text { Quiz } 3 \end{array}$ | $\begin{array}{ll} \hline & 21 \\ 2.4 & \end{array}$ | 2.5 |
| Week 4 April | $\begin{array}{ll}  & 25 \\ 2.5 & \end{array}$ | Review ${ }^{26}$ | Midterm $1^{27}$ | $\begin{array}{ll} \hline & 28 \\ 3.1 & \end{array}$ | 3.129 |
| Week 5 May | $\qquad$ | $\begin{array}{ll}  & 3 \\ 3.2 & \end{array}$ | 4.1 <br> Quiz 4 | 4.15 | 4.4 |
| Week 6 May | $5.1 \quad 9$ | Review 10 | Midterm $2^{11}$ | $\begin{array}{ll}  & 12 \\ 5.1 & \end{array}$ | 5.1 |
| Week 7 May | $\begin{aligned} & 16 \\ & 5.1 \end{aligned}$ | $\begin{array}{ll} \hline & 17 \\ 5.2 & \end{array}$ | ```\[ 5.2 \] \\ Quiz 5``` | $\begin{array}{ll} \hline & 19 \\ 5.3 & \end{array}$ | 5.3 20 |
| Week 8 May | 5.423 | $\begin{array}{ll} \hline & \mathbf{2 4} \\ \hline .4 & \end{array}$ |  | $\begin{array}{ll} \hline & \mathbf{2 6} \\ 5.5 & \end{array}$ | 5.5,5.6 27 |
| Week 9 May/June | $30$ <br> Memorial Day Holiday | $\begin{array}{ll}  & 31 \\ 5.6 & \end{array}$ | ```Quiz 7``` | $5.7 \quad 2$ $2$ $5.7$ | 5.7 3 |
| Week 10 June | $\begin{array}{ll}  \\ 7.1 & 6 \end{array}$ | Review ${ }^{7}$ | Midterm 38 | 7.7 | 8.1 |
| Week 11 June | $\qquad$ | $14$ $8.2$ | $\qquad$ | $\begin{array}{ll} \hline & 16 \\ 8.3 & \end{array}$ |   <br> Final <br> Review 17 |
| Week 12 June | $\begin{aligned} & \text { Final Exam }{ }^{20} \\ & 7: 00-9: 00 \end{aligned}$ | 21 | $22$ <br> Final Exam Week | 23 | 24 |

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## Important Dates:

Monday, April 4 :: First day of Spring Quarter 2016
Saturday, April 16 :: Last day to add quarter-length classes. Add date is enforced.
Sunday, April 17 :: Last day to drop for a full refund or credit for all students (quarter-length classes only). Refund deadlines for all non quarter-length classes are in MyPortal, "View Your Class Schedule" link. Drop date is enforced.

Sunday, April 17 :: Last day to drop a class with no record of grade. Drop date is enforced.
Friday, April 29 :: Last day to request pass/no pass grade. Request date is enforced.
Friday, May 27:: Last day to drop with a "W." Withdraw date is enforced.
Saturday - Monday, May 28-30 :: Memorial Day Weekend (no classes)
Saturday - Friday, June 18-24 :: Spring Final Exams
Friday, June $\mathbf{2 4}$ :: Last day to file for a spring degree or certificate
Friday, June 24 :: Last day of Spring Quarter
Saturday, June 25 :: Commencement Ceremony
Monday, June 27 :: First day of Summer Session

