Syllabus Math 212.MP1 Beginning Algebra, Fall 2017

Math 212   **Beginning Algebra**   **Fall 2017**

              Section MP1   CRN 20981   MTWThF   8:30- am – 10:20 am   E33

Instructor: **Greg Stachnick**

Contact Information:
              Email: StachnickGregory@fhda.edu
              Mobile: 408-857-6421

Office Hours:

              Tuesday   10:45 am – 11:45 am
              Wednesday   10:45 am – 11:45 am
                                   Or by appointment
                                   Location: MPS Tutorial Center (S41)

Course Counselor: Khoa Nguyen

              MPS math courses have an assigned counselor. We are fortunate to have Khoa
              Nguyen as our designated counselor. In addition to his counseling background,
              Khoa also has a degree in mathematics, so his is also an addition resource for
              help with homework.

Contact Information:
              Email: NguyenKhoa2@fhda.edu
              Office: S-41A
              Phone: 408-864-5664
              Mobile: 909-272-0865

Office Hours: M – F   10:30 am – 11:30 am
                                   Or by appointment

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.

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Textbook:

1. Intermediate Algebra for College Students, 7th Edition
2. Author: Blitzer (sold in the De Anza College Bookstore)
3. Textbook ISBN-13: 9780134178943
4. Student Access Code to MyMathLab (Required)
5. A Scientific Calculator is recommended (i.e. TI-30XIIS)

The Student Access Code to MyMathLab (MML) includes an eBook. Purchase of the hardcopy textbook is optional. Usually the De Anza Bookstore discounted price for the combined package (hardcopy book and Access Code) is the best deal.

De Anza Bookstore Textbook pricing (verify in case of change):

New Combo Pack (Text with MML Access Code)	$128.55
Used Combo Pack	$96.40
New Rental Combo Pack (Text with MML Access Code)	$61.48
Used Rental Combo Pack	$34.98

If you shop other sources, make sure you get 7th Edition Blitzer with MML Access Code included. ***Make sure used books do not have the MML Access Code on the inside front cover already scratched off.***

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:** Most homework assignments will be posted and completed 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.

2. **Gone in 60 Seconds:** Starting Wednesday September 27, during the first minute of each class students will answer a single question based on previous day's class discussion and/or homework assignment. ***Students are required to bring a blank 3" x 5" card to class to record their answers.*** Each question counts as one point. No exceptions for late arrivals. You snooze, you lose!

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3. **Quizzes:** Friday is Quiz Day. There will be a short quiz at the beginning of class each Friday (see tentative course schedule below) based on the homework assignments and class discussions for the week. Weeks for which a midterm has been scheduled will not have quizzes. If you have done all of the homework and attended class, you will be very well prepared. The lowest two quiz grades will be discarded (best five out of seven). No make-ups for quizzes.

4. **Exams:** There will be three midterms and a cumulative final (see schedule below for dates). If you miss a midterm, you must schedule a make-up within one week.

5. **Projects:** There will be two required class homework projects.

6. **Extra Credit Points:** There will be in class opportunities for extra credit points, stay tuned and be there.

7. **Point Distribution**

    i. Midterms: 300 Points (100 points each)
    ii. Quizzes   100 Points (Best 5 out of 7, 20 points each)
    iii. Gone in 60 Seconds   50 Points
    iv. Homework   100 Points
    v. Projects   100 Points (Two projects, 50 points each)
    vi. <u>Final</u>   <u>200 Points</u>
        Total   850 Points

8. **Letter Grade Breakdown**

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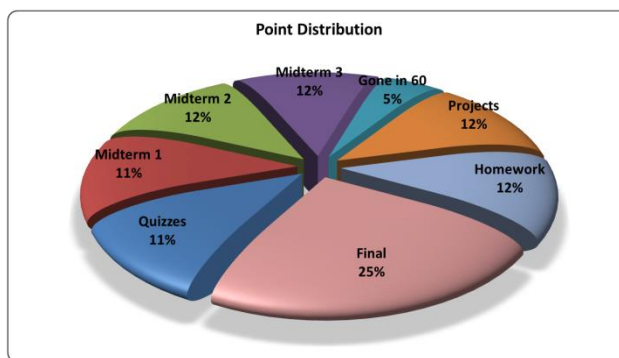
Additional Resources

Free Tutoring: The Math Performance Success (MPS) Tutorial Center in Room S42 offers free tutoring on Mondays-Thursdays from 9:00 AM-5:30 PM and Fridays 9:00 am – 12:00 noon. Arrangements for free personal tutors are available and must be set up during the first two weeks of the quarter. 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

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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.

Attendance:

Regular class attendance is required. Registered students missing any day the first two weeks, 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 five 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 both the instructor and counselor 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 once daily to check for new course information regarding homework, 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. A Course Studio Tutorial will be provided separately.

Any student email correspondence with the instructor should include the course number and section number or time (i.e. Math 212.MP1) in the subject line. I will respond to emails within one business day.

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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 Fall 2017 Class Schedule
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	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1 September	**25** 1.1 – 1.2	**26** 1.3 – 1.4	**27** 1.5	**28** 1.5	**29** 1.6 **Quiz 1**
Week 2 October	**2** 2.1	**3** 2.1	**4** 2.1	**5** 2.2	**6** 2.2 **Quiz 2** **(1)**
Week 3 October	**9** 2.2, 2.3	**10** 2.3	**11** 2.3, 2.4	**12** Review	**13** **Midterm 1**
Week 4 October	**16** 2.4	**17** 2.5	**18** 2.5	**19** 3.1	**20** 3.1 **Quiz 3** **(2)**
Week 5 October	**23** 3.2	**24** 3.2	**25** 4.1	**26** 4.1	**27** 4.4 **Quiz 4**
Week 6 October/November	**30** 5.1	**31** 5.1 – 5.2	**1** 5.2	**2** Review	**3** **Midterm 2**
Week 7 November	**6** 5.2	**7** 5.3	**8** 5.3	**9** 5.4 **Quiz 5**	**10** **Veterans Day**
Week 8 November	**13** 5.5	**14** 5.5	**15** 5.6	**16** 5.6	**17** 5.6 **Quiz 6** **(3)**
Week 9 November	**20** 5.7	**21** 5.7	**22** **Midterm 3**	**23** Thanksgiving Holiday Recess	**24**
Week 10 November/December	**27** 7.1	**28** 7.7	**29** 7.7	**30** 8.1	**1** 8.1 **Quiz 7**
Week 11 March	**4** 8.2	**5** 8.2	**6** 8.3	**7** 8.3	**8** **Final Review**
Week 12 March	**11** **Final Exam Week**	**12**	**13** **Final Exam 7:00 – 9:00** **(4)**	**14**	**15**

(1) Sunday Oct. 8: Last day to drop (2) Friday October 20: Last day to request pass/no pass
(3) Fri Nov 17: Last day to drop with a W (withdraw) (4) Wed Dec. 13, Final Exam 7:00-9:00

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Important Dates

Monday, Sept. 25: First day of Fall Quarter 2017

Saturday, Oct. 7: Last day to add quarter-length classes. *Add date is enforced.*

Sunday, Oct. 8: Last day to drop for a full refund or credit (for 12-weeks, quarter-length classes). Last day to drop for a refund/credit for all other classes is listed inside MyPortal, on the Students Tab under 'View Your Class Schedule.' *Drop date is enforced.*

Sunday, Oct. 8: Last day to drop a class with no record of grade. *Drop date is enforced.*

Friday, Oct. 20: Last day to request pass/no pass grade. *Request date is enforced.*

Friday, Nov. 10: Veterans Day (classes will be held on Nov. 11)

Friday, Nov. 17: Last day to drop with a "W." *Withdraw date is enforced.*

Thursday - Sunday, Nov. 23- 26: Thanksgiving Holiday Recess (college closed)

Saturday, Dec. 9 - Friday, Dec. 1: Final exams

Friday, Dec. 15: Last day to file for a fall degree or certificate.

Friday, Dec. 15: Last day of Fall 2017 Quarter

Monday, Jan. 8: First day of Winter 2018 Quarter