

MATH 201, ELEMENTARY ALGEBRA (prerequisite is Math 250 or equivalent), REEDLEY COLLEGE, Prof. PAUL T. KRYDER (instructor) [no formal office or office hours at RC, home phone is 637-0051, email is paul.kryder@reedleycollege.edu]

WELCOME TO MATH 201. The objective of this course is for you to learn the fundamental concepts and techniques of elementary algebra, including (but not necessarily limited to) equations and inequalities, rules for exponents, polynomials, rational expressions, graphing linear equations, and meaningful applications of much of the above.

S16 SPECIFIC INFORMATION: The class (51164) meets daily 3:30 - 5:45 pm (with 10-minute break) in CC1-200 [final exam is 05-19 (Th), 3 - 4:50 pm, with final exam review on 05-17 (Tu), 4 - 5:50 pm], My Math Lab Course ID is kryder72988]. When registering for My Math Lab, please be SURE you enter your name EXACTLY the way it appears in the RC records—NO nicknames please !!

Learning Outcomes: Upon successful completion of this course, the student shall be able to: (1) perform basic arithmetic operations with real numbers, including evaluating arithmetic expressions with multiple operations, (2) solve linear equations and inequalities in 1 variable, (3) graph linear equations in two variables, (4) find the equation of a line given certain facts about the line, (5) solve systems of 2 linear equations in 2 variables, (6) simplify one-term exponential expressions in 1 or more variables, using the rules for exponents, (7) use scientific notation, (8) perform operations (add, subtract, multiply, divide) on polynomials, (9) fully factor polynomials, (10) solve polynomial equations by factoring, (11) simplify rational expressions and compound fractions, (12) perform operations (add, subtract, multiply, divide) on rational expressions, (13) solve rational equations, and (14) use the above skills to do meaningful applications (e.g. word exercises) requiring algebraic techniques.

Math 201 Tentative Schedule Of Topics (34 instructional days, S16 Tu/Th Classes)

Day 1: Opening business, Sec. 1.1 (integers, opposites, absolute value)

Day 2: Sec. 1.2, 1.3, 1.4 (operations with integers; fractions; operations with fractions)

Day 3: Sec. 1.5, 1.7 (decimals and percent; exponents and order of operations)

Day 4: Sec. 1.8 (introduction to algebra)

Day 5 (01-26, Tu): UNIT 1 EXAM

Day 6: Sec. 2.1, 2.2 (linear equations in 1 variable)

Day 7: Sec. 2.3 (applications of linear equations in 1 variable)

Day 8: Sec. 2.4 (percent exercises; ratio and proportion)

Day 9: Sec. 2.5 (linear inequalities in 1 variable)

Day 10 (02-11, Th): UNIT 2 EXAM

Day 11: Sec. 3.1, 3.2, 3.3 (the rectangular coordinate system; graphing linear equations in 2 variables; the slope of a line)

Day 12: Sec. 3.4, 3.5 (linear functions; parallel and perpendicular lines)

Day 13: Sec. 3.6 (equations of lines)

Day 14: Sec. 4.1, 4.2, 4.3 (systems of 2 linear equations in 2 variables; solving by substitution method; solving by addition method)

Day 15: Sec. 4.4 (applications of systems of 2 x 2 linear systems of equations)

Day 16 (03-03, Th): UNIT 3 EXAM

Day 17: Sec. 5.1, 5.2 (exponents; negative exponents and scientific notation)
Day 18: Sec. 5.3 (polynomials; addition and subtraction of polynomials)
Day 19: Sec. 5.4 (multiplication of polynomials)
Day 20: Sec. 5.5+ (division of polynomials including both long and synthetic division)
Day 21: Sec. 5.5+ *cont'd*
Day 22 (03-31, Th): UNIT 4 EXAM

Day 23: Sec. 6.1, 6.2 (introduction to factoring polynomials, greatest common factor, factoring by grouping; factoring trinomials with leading coefficient = 1)
Day 24: Sec. 6.3 (factoring trinomials with leading coefficient $\neq 1$)
Day 25: Sec. 6.4 (factoring special binomials)
Day 26: Sec. 6.5 (general strategy for factoring polynomials)
Day 27: Sec. 6.6+ (quadratic and higher order polynomial equations, solving by factoring)
Day 28 (04-21, Th): UNIT 5 EXAM

Day 29: Sec. 7.1, 7.2 (rational expressions and rational functions; multiplication and division of rational expressions)
Day 30: Sec. 7.3, 7.4 (addition and subtraction of rational expressions)
Day 31: Sec. 7.5 (compound rational expressions)
Day 32: Sec. 7.6 (rational equations)
Day 33: Sec. 7.7 (applications of rational equations)
Day 34 (05-12, Th): UNIT 6 EXAM

Students with disabilities should see me privately for all special arrangements.

My "office" time: I have no formal office at RC since I am not a full-time instructor at RC.

Textbook (not essential to bring to class): *Elementary and Intermediate Algebra*, 4th edition (equivalent to the Custom Edition for Fresno City College), by Woodbury. You are NOT required to purchase the bundled version of the textbook as the My Math Lab assignments will be optional and extra credit, but you may do so if desired. My Math Lab access can also be purchased separately online with a credit card, or via a My Math Lab Access Code Kit in the RC bookstore. We will cover chapters 1 - 7, generally in order. [Unit 1 = chapter 1, unit 2 = chapter 2, unit 3 = chapters 3 and 4, unit 4 = chapter 5, unit 5 = chapter 6, unit 6 = chapter 7]. There is an optional solution manual to the textbook.

Other required materials: To all classes, please bring sufficient paper for note-taking, a writing instrument, a calculator (the TI 30X-IIS is the calculator of choice; no calculator required in unit 1), graph paper (unit 3 only), and a ruler (unit 3 only). (If you use a mechanical pencil, please bring plenty of extra leads.) PLEASE BE SELF-SUFFICIENT—IT IS INCREDIBLY ANNOYING AND DISTRACTIVE WHEN STUDENTS COME TO CLASS WITHOUT PROPER MATERIALS, AND THEN HAVE TO "BUM" FOR THEM FROM ME OR FROM OTHER STUDENTS!! BE RESPONSIBLE AND COME TO CLASS PREPARED.

Exams, quizzes: Exams will be announced at least 1 week in advance. 6 unit exams plus 1 comprehensive final exam planned, with the final exam score recorded twice as 2 identical scores. Each exam score is a "maximum" 100 points. All exams are closed book, closed notes. 1 new **large blue book** required for each exam—purchase in bookstore for a few cents. Quizzes will typically be short and unannounced ahead of time, and will be used to "enhance" exam scores. *(I will no longer accept frayed-edge paper for quizzes, so be sure to bring at least a few sheets of 8.5" by 11" paper with smooth edges to each class to do your quizzes on.)* **NO makeup quizzes EVER given; only persons present in class at the START of a quiz may take that quiz.**

Textbook homework and homework policies are given in the Textbook Homework List; homework points will also be used to "enhance" exam scores. Homework for each unit is due on the day you take the exam for that unit and will NOT be accepted late for ANY reason.

Online Homework: Online homework is optional via My Math Lab. You may do either the online homework or the textbook homework or both; all are bonus points and it IS possible to get more points by doing both than by doing just one or the other. To register for My Math Lab, go to www.mymathlab.com and register using the course ID (listed near the top of the 1st page of this syllabus) AND using the access code that comes with your textbook (or if you did not purchase the textbook with access code you may buy an access code online with a credit card, or purchase an access code kit in the bookstore). The advantage of online homework is that it is interactive and gives you instant feedback.

Early/Late Exams: Exams may NOT be taken early; the first time you miss an exam it must be your drop exam unless the miss is due to (1) a RC conflict, (2) military service, or (3) jury duty/court summons. *(In any of these cases written documentation must be provided to enable you to take a makeup exam on the first missed exam.)* On the 2nd missed exam and thereafter you may take a makeup exam with a reasonable excuse subject to verification at my discretion. **PLEASE TRY TO AVOID MISSING EXAMS—MAKEUP EXAMS ARE A NUISANCE AND INCREDIBLY TAXING ON ME !!** Quizzes can NEVER be taken early or late.

Cheating on any exam or quiz will NOT be tolerated and will be dealt with according to the RC policy on cheating and plagiarism—see the RC catalog for details.

Semester grades: Semester grading scale is as follows: **F < 60% ≤ D < 68% ≤ C < 80% ≤ B < 91% ≤ A**. Your total number of points from all exams, except your lowest single exam score, will be calculated and compared to this scale to determine semester grade. *Once the semester is over, NO additional work may be done to raise your grade.*

Incompletes: Given only for the most extreme, serious, and unexpected (and well-documented) circumstances (e.g. automobile accident, serious illness, death in the immediate family) and will NOT be used merely to "bail you out" of getting a bad grade. If you do get my approval to take an incomplete, everything you have done up to the point of your leaving the class must count and may NOT be repeated.

Outside help: Available free of charge on a drop-in basis from RC instructors in the STEM Center (FEM-1), and from qualified student tutors in the RC Tutorial Center (in the library building). Please contact those centers for their hours and to find when they start up.

Expected: That you attend ALL classes **ON TIME**, with **PROPER MATERIALS**, and **READY TO LEARN** and **BE ON-TASK**. Also that you **DO YOUR HOMEWORK ON TIME**, and **PROPERLY PREPARE FOR ALL EXAMS**. Finally, that you **GET OUTSIDE HELP IN A TIMELY MANNER IF YOU NEED IT**.

Not allowed in class, ever: Rude or distractive behavior, abuse of others' property, babies or very young children, the use of cell phones or pagers or any kind of earphone device (e.g. MP3 players), or use of ANY kind of tobacco product (RC rule).

Blackboard use: Important announcements, documents (e.g. practice exams, homework addendum sheets), and student grades (to access grades, first click on "Tools & Grades") will be posted for this course on Blackboard (Bb), which is easily accessible for any enrolled RC student with a student ID # and internet access (go to www.reedleycollege.edu, then click on Blackboard, then proceed; use your student ID # as both your username and your password). *(If you do not have a computer and/or a printer at home, that is no problem—numerous computer labs with internet access and printers exist on campus for your use; for example, in the library, in room FEM-4E, and others.)* Please check the class Bb site often for new announcements and documents.

RC S16 Academic Calendar (not specific to this class, but required to be on syllabi)

October 23 (F) Spring 2016 registration begins for continuing students
November 11 (W) Veterans Day holiday (no classes held, campus open)
November 26-27 (Th-F) Thanksgiving Day Holiday (no classes held, campus closed)
December 14-18 (M-F) Fall 2015 final exams week
January 4 (M) Campus re-opens after Winter Break
January 11 (M) Spring 2016 instruction begins
January 11 - March 11 (M-F) Spring 2016 short-term classes, first nine weeks
January 18 (M) Martin Luther King, Jr. Day observed (no classes held, campus closed)
January 22 (F) Last day to request an Enrollment Fee Refund
January 29 (F) Last day to add a full-term class for Spring 2016
January 29 (F) Last day to drop a full-term class to avoid a "W" (in person) for Spring 2016
January 31 (SU) Last day to drop a full-term class to avoid a "W" (on WebAdvisor) for Spring 2016
February 5 (F) Last day to change a class to/from a Pass/No-Pass grading basis
February 12 (F) Lincoln Day observed (no classes held, campus closed)
February 15 (M) Washington Day observed (no classes held, campus closed)
March 11 (F) Last day to drop a full-term class (in person) (letter grades assigned after this date)
March 14 - May 20 (M-F) Spring 2016 short-term classes, second nine weeks
March 21-24 (M-Th) Spring Recess (no classes, campus open)
March 25 (F) Deadline to file Intent to Graduate via WebAdvisor
March 25 (F) Spring Holiday observed (no classes, campus closed, classes reconvene March 28)
May 16-20 (M-F) Spring 2016 final exams week
May 20 (F) End of spring semester/commencement

NOTE: Please pay attention to the above drop deadlines. It is NOT my obligation to remind you of them during the semester. If you wish to drop the course, then doing so is YOUR responsibility, NOT mine. NEVER assume that I will drop you simply for non-attendance, because I generally will NOT.

Cheating: ALL of the RC policies on cheating and plagiarism can be assumed to be fully in force in this class. Please see the current RC Catalog for a full statement of these policies.