Math 110 # Elementary Algebra Spring 2010

INSTRUCTOR: Gary Church

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OFFICE HOURS: 8:00–10:00 daily

TEXTBOOK: McKeague; *Elementary Algebra, 8th edition*

PREREQUISITES: To be eligible for this class you must have the appropriate skill level as measured by a satisfactory score on the College Placement Test in combination with previous math coursework. Students who have earned three units of credit in MATH 811 (or the equivalent) at one of the SMCCCD colleges need not take the Math Placement Test.

CALCULATOR: You are required to have a calculator for use in this class. A basic "scientific" calculator is acceptable but I strongly recommend the TI-83 graphing calculator. It is an easy-to-use calculator that will serve you well in this and other courses.

GRADING: Your grade will be based on homework, out of class assignments, frequent quizzes, exams and a final exam. I will drop your lowest quiz score and, if necessary, adjust exam and final scores by adding a constant amount to each students score to ensure that at least ten percent of the class receive "A's." Assignments, quizzes, exams and the final exam will be weighted as follows:

Homework and Assignments:	15%
Quizzes:	15%
Exams:	50%
Final Exam:	20%

The final letter grade is calculated as a percentage of the weighted scores based on the ranges:

A = 100—90 B = 89—80 C = 79—70 D = 69—60 F = 59—00

A grade of "I" (incomplete) will be given *only* in the case of an emergency situation.

MAKEUPS: In case of absence, you will be allowed to make up *one* exam *if* you inform me of your absence no later than one day after the date of the exam *and* you take the make-up within one week of your return to class. The make-up test will be more difficult than the original exam and will not be curved.

HOMEWORK: Homework will be assigned through WebWork, an on-line homework management system. You will need to purchase a semester access code for $35 to use the system. You can get a link to the site from our course web page. To log in provide your student id number for the username, "smccd" for the institution and "math" for the password. Once you log in you will be prompted to purchase the access code. You will be given a grace period of 14 days before having to purchase the code. Problem sets will appear as they become available and you will be able to rework problems up to five times before the due date in order to improve your score. From time to time you will be given take-home assignments in addition to the usual homework. Collection policies on these exercises will be discussed when the assignment is issued.

MRC: You are required to sign in to the Math Resource Center (MRC) in 18-202 for at lease one hour each week. This time can be spent studying, doing homework or getting help from one of the tutors. More information about the MRC can be found at: http://www.smccd.edu/accounts/csmmrc/

DISABILITIES: If you have a documented disability and need accommodations for this class, please see me as soon as possible or contact the Disability Resource Center (DRC) for assistance. The DRC is located in Bldg. 16 Room 150. (650) 574-6438; TTY (650) 574-6230

- Confidentiality. Students with disabilities are protected under Family Education Rights and Privacy Act (FERPA). Please understand confidentiality and do not identify the person or their disability information to other students.
- Taping Lecture. Students who are unable to take or read notes have the right to tape record class lectures only for their personal study.
- Documentation. Students must provide documentation before they are entitled to accommodations. If you have any questions, please feel free to contact me or Danita Scott-Taylor (650) 574-6215; scott@smccd.edu

ATTENDANCE: Attendance, while not directly affecting your grade, is very important; there is a direct correlation between attendance and grade point average. Attendance will be recorded each class meeting and excessive absence (five or more days) is cause for being dropped from the course, regardless of academic progress. Whether a student is actually dropped depends on individual circumstances.

FINAL EXAM: The final exam is comprehensive and will be given on Tuesday, May 26, 8:10–10:40 a.m..

IMPORTANT DATES:

- Last day to add or to drop with possible class fee refund: Mon., Feb. 1.
- Last day to drop with no mention of course on transcript: Tu., Feb. 16.
- Last day to drop with a guaranteed "W" grade: Th., April 29.
  No "W" grades will be given after this date! Please bring me a drop slip if you decide to drop the class.

STUDENT LEARNING OUTCOMES: Upon completion of this course, a student will be able to

- Identify and know when to apply arithmetic and pre-algebra concepts.
- Solve problems by application of pre-algebra principles.
- Represent problems in written language, in symbolic form, and in graphical form.
- Select and apply appropriate formulas.
- Organize work in a cclogical
- Use calculators effectively and appropriately.
- State solutions to application problems in the context of the problem and recognize inappropriate and/or impossible answers.
- Follow and demonstrate understanding of mathematical exposition (text readings, handouts, and lectures.)
- Recognize the usefulness of elementary mathematics.
- Identify and apply basic algebraic concepts including slope, absolute value, scientific notation, equivalent equations, laws of exponents, intercepts, horizontal lines, and vertical lines.
- Solve systems of linear equations in two unknowns using graphing, elimination, and substitution.
- Solve equations and inequalities in one variable.
- Solve quadratic equations by factoring and by using the quadratic formula.
- Solve elementary radical equations.
- Solve equations with rational expressions.
- Graph linear equations.
- Find the equations of lines
- Solve problems by application of linear functions.
- Apply the properties of and perform operations with radicals.
- Apply the properties of and perform operations with integer exponents
- Apply the properties of and perform operations with polynomials
- Apply the properties of and perform operations with rational expressions