Math 112 – Elementary Algebra II

Cañada College . Spring 2010

Class Hours and Location:	Mondays and Wednesdays from 9:45 to 11:00 a.m. in 17 – 205 *and 16 hours in the Learning Center by arrangement*
Required Materials:	Text: *Elementary Algebra: Graphs & Authentic Applications Edition* by Jay Lehmann (Purchasing the text is optional – an online version is included with MyMathLab.) Software: MyMathLab access and access to a computer with internet access Calculator: A scientific calculator such as TI-30. If you intend to go onto intermediate algebra and/or statistics, I recommend you get a TI-83 or TI-84 graphing calculator. Supplies: paper, spiral bound notebook, pencil & eraser
Prerequisite:	Math 111 with a grade of C or better or appropriate score on the college placement test
Instructor:	Denise Hum Email: humd@smccd.edu (preferred) Voicemail: (650) 306 – 3351 Office: 16 – 109 Website: http://www.smccd.net/accounts/humd
Office Hours:	Monday through Thursday from 2 – 3 in the Math Lab and by appointment
Free Math Tutoring On Campus:	The Learning Center on the 2nd floor of Building 9 has free drop-in tutoring in the Math Lab. You can also make an appointment for one-on-one tutoring at the Tutorial Center.
Class Website:	http://www.smccd.net/accounts/humd/spring2010/math112 Check the website regularly for class handouts, announcements, and important dates

Course Description & Student Learning Outcomes

This course is a continuation of Math 111 and is equivalent to the second half of Math 110. Topics include systems of equations, integer exponents, polynomials, factoring, proportions, rational expressions, and problem solving. We will cover chapters 6, 7, 8, and 10 of the text.

Student learning outcomes include the following skills:

1. Simplify polynomials, and rational expressions.
   a) Use appropriate techniques to multiply, divide, add, and subtract polynomials and rational expressions.
   b) Simplify expressions with integer exponents.
2. Construct and solve quadratic and rational equations to model a given application.
   a) Apply factoring techniques to solve quadratic equations.
   b) Use appropriate methods to solve rational equations.
   c) Verify that solutions comply with any constraints in the model.
   d) Model & solve word problems whose solutions require formulating one variable quadratic or rational equations.
3. Solve a two by two system of linear equations.
   a) Identify the different types of systems and their graphical interpretations.
   b) Use different methods to solve a system of two linear equations.

Grading Policy & Course Requirements

A: 90% - 100%; B: 80% - 89%; C: 70% - 79%; D: 60% - 69%; F: under 59%

Homework:	10%	Mastery Quizzes:	10%
Class work & Participation:	5%	Tests:	45%
Hours by arrangement in the Learning Center:	5%	Final Exam:	25%

- *Homework* – Homework makes up 10% of your grade. You will be assigned homework each class period and it will be due the following class period. It is by reading the textbook and working through problems that you will be able to understand and master the methods, applications, and computations required for this course. **Homework will be done and submitted online using MyMathLab**. Occasionally you will be required to submit homework on paper.
  I will drop your lowest two homework scores. No late homework will be accepted.
- *Class work & Participation* – Your participation includes class work and attendance. We will have assignments or problems in class to be worked on individually or in small groups. Class work cannot be made up if missed. Using electronic devices such as cell phones, leaving class early, arriving late, sleeping, and doing work for other classes are examples of things that can lower your class work & participation grade.

- *HBA in the Learning Center* – As a part of this course, you will need to complete 16 worksheets in the Math Lab and log in for at least 16 hours. Hours by arrangement will count for 5% of your grade. **Worksheets are due every Monday at the beginning of class**. No late work will be accepted, but you can turn them in early.
- *Mastery Quizzes* – Mastery quizzes make up 10% of your grade and will be given after we have learned a specific skill. You must score at least 80% on a quiz to pass and no partial credit will be given. If you do not pass, you will receive a 0% for the quiz, if you pass, your score will be 100%. You will be allowed unlimited tries on mastery quizzes, but you must schedule them with me in advance and take them during office hours.
- *Tests* – Three midterm exams will be given, each worth 15% of your grade. No makeup exams will be given. If your lowest midterm exam score is lower than your final exam score, then that midterm exam score will be replaced by your final exam score. No makeup tests will be given.
- *Final Exam* – A comprehensive final exam worth 20% of your grade will be given on ***Monday, May 24 from 8:10- 10:40 a.m.*** The final exam is mandatory, and you must take it at this time.

Policies

- *Classroom Conduct* – Be polite and be respectful to everyone in the class. Please do not talk or be loud when it is not appropriate. Cell phones must be *silent* and mp3 players must be turned off and put away. Cell phone use during an exam or quiz will result in a 0. Use of electronic devices with the exception of calculators is prohibited during class time. Any use of electronic devices during class – this includes text messaging – will result in you being asked to leave class for the day.
- *Attendance* – You should plan on arriving to class on time and staying for the duration of the class. If you arrive late or need to leave early, please do so quietly as to not disrupt the class. If you must be absent, please notify me *in advance*. It is your responsibility to obtain the class notes and assignments from another student so you can catch up. Attendance will be taken daily.
- *Cheating* – Do not cheat. For example, do not talk to or consult other students, share calculators or use disallowed materials during an exam or quiz. If you are caught cheating or helping someone cheat, you will receive a 0 for that activity and an Academic Integrity Violation Report will be filed. If you cheat on a mastery quiz, you will receive a 0 for that quiz and cannot retake it. If you are unsure of what constitutes cheating, see http://www.canadacollege.edu/inside/acad_integrity
- *Adding & Dropping* – Please make sure to add or drop yourself from this class. If you stop coming to class, it is your responsibility to drop yourself, otherwise you will receive an "F" for the course. Students who miss more than four class periods may be dropped from the course.

Resources

I encourage you to form study groups to do homework and study outside of class. You can also come see me and ask questions during my office hours. In addition, the Learning Center on the 2nd floor of Building 9 has free math tutoring. The class website also has links to some math websites that I have found to be very helpful.

If you have a disability which may require classroom or test accommodations, please contact Disabled Students Programs and Services (DSPS) in Building 5, Room 207 or call DSPS at 650-306-3259.

Important Dates

January 20	First day of class
February 1	Last day to add
February 15	No classes (holiday)
February 16	Last day to drop without a "W"
March 11	No classes (Flex day)
April 5-8	No classes (Spring break)
April 29	Last day to withdraw with a "W"
May 19	Last day of class
May 24	**Final Exam at 8:10 a.m.**