Math 103 B-1   College Algebra Part II

Monday and Wednesday, 4:00 to 5:50 pm

Room E 106

4 UNITS

Class Begins: 1-4-2010 Monday

Class Ends: 3-24-2010 Wednesday

Instructor: Richard Lund

Phone Number: 621-1904   (In Placerville, preferred)

                           541-5952   (Tahoe, when here)   Only Placerville has a machines for messages.

e-mail: rwlund92@gmail.com   (Best way to reach me.)

LTCC home page: http://www.ltcc.cc.ca.us/   If you go to Academic Departments, then Math Department, then Math Resources, you will find a world of resources that will help you.

Required Text: Precalculus, 5rd Edition, by Michael Sullivan and Michael Sullivan, III

Check out the Solutions manual for this course before purchasing it to see if the book meets your needs.

Course Description:
> This course covers exponential and logarithmic functions; conic sections, parabolas, ellipses and hyperbolas. We will study linear systems, matrices, sequences and particular emphasis will be placed on application problems (word problems) and the use of a graphing calculator.

Student Learning Outcomes
1. Prove and derive mathematical statements using various methods including induction.
2. Employ matrices and their properties to solve systems of equations.
3. Construct and interpret graphs of conic sections and transcendental functions.
4. Apply the topics of the course to real world situations.

Methods of Assessing Student Learning Outcomes
1. Homework
2. Quizzes
3. Exams
4. Final exam
5. Projects
6. Presentation
7. Paper
8. Journal
9. Pre/post tests
10. Self-assessment

Prerequisite:

A grade of C or better in Math 103A or Math 154; or appropriate skills demonstrated through the Math assessment process. Also required: Math 153 or equivalent.

Students with disabilities must identify themselves to me within the first two weeks of class. **Accommodations for Students with Disabilities**: Students requiring accommodations for a certain disability that may affect class performance are requested to schedule with a staff member at the DRC to discuss this during the first week of the quarter so that appropriate arrangements can be made.
* Course materials available in alternate format.

Grading Policy:

Your letter grade will be based on your percentage of possible points.

A 90 to 100%
B 80 to 89%
C 70 to 79%
D 60 to 69%

Quizzes	7 points	
Homework	7 points	
Midterm 1	27 points	
Midterm 2	27 points	
Midterm 3		Three midterms will be given. If you have turned in all of the assigned homework, your lowest midterm grade will be dropped.
Final Exam	<u>32</u> points	
Total Points	100	

Quizzes will be given at random intervals during the quarter to assess your progress. You must complete at least four quizzes. If you have more than four, and you have turned in all of your homework by the Final, the lowest grades of those in excess of four will be dropped so that your grade is based on the four best scores of your quizzes.

Exam Policy:

Students are to bring calculators, pencils or pens and paper to each exam.

Grading will be based on progress towards the final answer, and the demonstration of understanding of the concept that is being tested. Therefore, work must be shown in detail. Remember, my job is to communicate to you the concepts so that you can learn them. Your job in class or during an exam is to communicate to me how you would go about solving the problems. The more you communicate, that is, show me with steps and detail, the better your chances for partial credit. A simple answer, with no detail whatever, does not help me at all! You give me the communication and detail in your answers; and I will give you the best grade I can based on your communication and answer.

Any student who cannot make it to an exam may elect to take the exam up to two days before

the exam is scheduled.

Homework Policy:
   Homework is for Your benefit. Homework is to be turned in at the end of each class on the date due. Homework may be turned in late. The benefit to you of doing homework is to practice what you have learned in class.

Extra Credit:
   Any student who has turned in every homework assignment may elect to work on an extra credit assignment or project that will count as additional points towards either a midterm or the final.

Student Outcomes: The successful student will:

   1) Produce and interpret graphs of functions and relations.

   2) Apply techniques to solve polynomial and rational equations and inequalities.

   3) Model real life situations using algebraic methods.

   4) Simplify algebraic expressions using skills obtained in the course.

Registration:
   1. You must register for this class at the Office of Admissions and Records.
   2. Friday, Jan 29; Last day to drop the class with no penalty or mark on your record.
   3. Friday, Feb 19: Last day to drop the class and receive a grade of "W".
   4. After Feb 19, if you are enrolled, you will receive an A, B, C, D, F, or I (Incomplete, must be negotiated with the instructor and is only allowed under special circumstances).

   In this class, it is your responsibility to drop the class in order to avoid an unwanted grade. You must go to the registrar by the above dates to avoid the unwanted grade.

Office Hours:
   I have no office here at the college. However, I am often available in the "common area" an hour or so before class; or you may call, email or see me before or after class to arrange to get together.

Calculators:
   A graphing calculator is required for this class. There are a variety of such calculators on the market. The instructor will be using a Texas Instruments 89 (TI-89). Calculators will be allowed on the exams. The reason for this "allowance" is simple: you earn credit for your answers by showing your work – NOT by the answer you give. So a calculator becomes a valuable "tool" for you to check your answers, not to obtain you answers.

Homework Assignments
   Lecture will always be geared towards an explanation of the topics that will be covered on the homework assignment.

How to Succeed in a Math Class

1. Come to every class meeting.

2. Arrive early, get yourself settled, spend a few minutes looking at your notes from the previous class meeting, and have your materials ready when class starts.

3. Read each section before it is discussed in class.

4. Do ALL of the homework. Do some math every day.

5. Start preparing for the tests at least a week in advance.

6. Spend about half of your study time working with your classmates.

7. Take advantage of tutors and office hours, extra help can make a big difference.

8. Do not do homework in class.