Course Syllabus

Spring 2015

Math B70: Intermediate Algebra (5 units)

Professor: Rafael Espericueta
CRNs: 31519

Prof's Email: resperic@bakersfieldcollege.edu
Homepage: http://www2.bakersfieldcollege.edu/resperic/

Class Meetings
Mon through Thurs from 1:00 - 2:10 pm in MS 109.

Topics Covered
Systems of linear equations in 2 and 3 variables, their solutions and applications; functions, including their domain, range, composition, and inverses, along with their applications; radical, exponential, and logarithmic equations and their applications; the conic functions and their graphs. For more details, see the Student Learning Outcomes below. We will cover chapters 7 through 13 in the text. See the class calendar link from my homepage for what topic is covered on what day, and when in-class exams are scheduled.

Prerequisites
MATH B60 or equivalent elementary algebra course with a grade of “C” or better or qualifying score on placement assessment. Recommended: Reading Level 5 or 6.
Not Transferable: Associate Degree only.

Text
Elementary & Intermediate Algebra, by Bittinger et al.
This is a custom text for BC, that will be used for BOTH elementary algebra (Math B60) and our course, intermediate algebra (Math B70). This includes an access code for MyMathLab, where assignments must be completed. You may want to only purchase an access code for MyMathLab— it gives you access to the complete text online, and costs far less. Last semester most students who purchased the hard-copy text wished they hadn't wasted their money.

Important: If you already have an access code from taking Elementary Algebra last semester, you don't have to purchase ANYTHING for this course! :-)

Prof's Office Hours ( In short, before or after class! )
Office hours (in MS 109) - Mondays through Thursdays from 12:15 - 1 pm,
2:10 - 2:35 pm,
3:25 pm

Problem Solution Videos
Your instructor solving algebra problems from previous classes:
Elementary Algebra: http://mastermathnow.com/BAvideos/index.htm (much of this is useful too!)

Dropping
If you need to drop the class for any reason, it is entirely your responsibility to do so. Check with the Office of Admissions and Records to see what their policy is concerning dropping the class, if you need to exercise this option. If you don't drop the class, you may end up with an 'F' on your transcript. On the other hand, you may be dropped if you accrue 8 unexcused absences (4 unexcused absences for the
evening class), but don't count on it. You may also be dropped if you fall too far behind the class.

**Grading**
Your grade will be computed as follows:
Homework: MyMathLab assignments (online): 15%
Chapter Quizzes: 15% (online, 6 in total)
Midterm Exams 30% (in class, 2 of 'em @ 15% each)
Final Exam: 40% (in class)

**Final Exam Times** (in MS 109, our usual class meeting room)
Wednesday, May 13, from 12 - 1:50 pm.

**MyMathLab**
Go to the course link at my website (http://www2.bc.cc.ca.us/resperic) to see how to get started.
Or just Google: rafa page bakersfield, it should return my page as the first result.

**Accommodations**
Students with disabilities who believe they may need accommodations in this class are encouraged to contact Supportive Services on the first floor of the counseling building, 395-4334, as soon as possible to better ensure such accommodations are implemented in a timely manner.

**FERPA**
The Family Education Rights and Privacy Act (FERPA) is a federal law that prohibits the instructor from sharing student information (grades, class progress, etc..) with anybody except the student. This means that I cannot share your information with family members (parents, siblings, spouses, etc…).

**Math B70 Student Learning Outcomes**
Upon completion of this course, the student will be able to
1. Find the domain and range of a function. Graph a linear, simple quadratic, and an absolute value function. Find the sum, difference, product, and quotient of two functions. Solve word problems (these problems will involve formulas and variation) by defining a variable, setting up and solving an equation and interpreting the result.
2. Solve a system of linear equations (a 2x2 and 3x3). Solve word problems involving 2 and 3 variables by defining variables, setting up and solving equations and interpreting the result.
3. Solve a linear and an absolute value inequality and identify the solution in set and interval notation, and graph the solution. Graph inequalities in two variables and identify the solutions region.
4. Simplify radical expressions and functions. Find the sum, difference, product, and quotient of two terms involving radicals and complex numbers. Solve radical equations. Solve word problems (these problems will involve the distance and midpoint formulas) by defining a variable, setting up and solving an equation and interpreting the result.
5. Solve quadratic equations and equations that are reducible to quadratic, by the square root principal, factoring, and the quadratic formula. Solve word problems by defining a variable, setting up and solving an equation and interpreting the result. Graph quadratic functions. Solve polynomial and rational inequalities.
6. Find the composition of two functions. Find the inverse of a function. Solve exponential and logarithmic equation. Graph exponential and logarithmic functions.
7. Graph parabolas, circles, ellipses, and hyperbolas. Solve nonlinear systems of equations.