**Course Syllabus**

**Spring 2015**

**Math B1B: Precalculus II (4 units)**

**Professor:** Rafael Espericueta  
**Prof's Email:** resperic@bakersfieldcollege.edu  
**CRNs:** 31433  
**Homepage:** [http://www2.bakersfieldcollege.edu/resperic/](http://www2.bakersfieldcollege.edu/resperic/)

**Class Meetings**
Mon through Thurs from 2:35 - 3:25 pm in MS 109.

**Topics Covered**
See the Student Learning Outcomes below. We will cover chapters 6-10, 12, and 14 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 B1A or equivalent precalculus course with a grade of “C” or better or qualifying score on placement assessment. Recommended: Reading Level 6. Transferable.

**Text**
*Precalculus, 7th edition*, by Cohen

You may want to only purchase an access code for WebAssign – 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 Math B1A last semester, you shouldn'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: These could be useful for review.  

**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**
Homework: WebAssign assignments (online): 15%  
Chapter Quizzes: WebAssign assignments (online, 7 in total) 15%  
Midterm Exams 30% (in class, 2 of 'em @ 15% each)  
Final Exam: 40% (in class)
Final Exam Times
Monday, May 11, from 2 - 3:50 pm. (in MS 109, our usual class meeting room)

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 B1B Student Learning Outcomes
1. Convert angles from degree measure to radian measure and radians to degrees. Classify an angle in standard position by quadrant and, knowing a coordinate pair on the terminal side, use ratios to find all six trigonometric functions of any angle.
2. Solve right triangle application and determine exact results or rounded answers, as is appropriate. Solve application problems by using Law of Sines, Law of Cosines, or area formulas.
3. Graph any of the six trigonometric functions, applying any change to the period, phase shift, amplitude, or vertical shift.
4. Verify trigonometric identities by using reciprocal or Pythagorean identities.
5. Apply the appropriate trigonometric formula (half – angle formulas, double angle formulas, addition formulas) in order to evaluate trigonometric expressions and compute trigonometric function values.
6. Evaluate inverse trigonometric functions (exact and approximate) and solve equations containing inverse trigonometric function values.
7. Find all solutions to trigonometric equations by choosing to isolate the trigonometric function, or use techniques of solving quadratic equations (factoring, square root property, quadratic formula).
8. Use the knowledge of trigonometry to work with 2 – dimensional vectors. Find magnitude and angle of inclination.
9. Write in standard form and graph conic sections.
10. The student will become proficient in technique of proof by mathematical induction.
11. The student will become proficient in solving problems related to arithmetic and geometric sequences and series, and use the binomial theorem.