

Sign up for class messages: Text the message @precalcB17 to 81010

Pre-Calculus “B”

Mr. Becker
F126

email: steven.becker@orecity.k12.or.us
phone: 503-785-8956

Respect and Honesty

Welcome:

You have chosen to take an elective course in mathematics in which you are able to get college credit through CCC. There are 5 college credits available for this term, and your percent will dictate the college grade you get. In other words, if you get a 79.9% in the course, you will get a B for your high school grade, but you will get a C for your college grade. Being that this is a college course, the rigor is much increased from your past experience. We will discuss this in class.

Grading:

Your grade in the course will depend upon the following four different areas –

- A comprehensive Final Exam worth 15% of the course grade
- Chapter Tests will account for 60% of your grade
- Quizzes will account for 10% of your grade
- Homework will account for 15% of your grade

I will follow the typical standard grading scale:

	High School Grading		CCC Grading
• A	92.5 - 100%		90 – 100% A
• A-	89.5 – 92.4%		80 – 89.9% B
• B+	86.5 – 89.4%		70 – 79.9% C
• B	82.5 – 86.4%		60 – 69.9% D
• B-	79.5 – 82.4%		0 – 59.9% F
• C+	76.5 – 79.4%		Withdraw X
• C	72.5 – 76.4%		
• C-	69.5 – 72.4%		
• D+	66.5 – 69.4%		
• D	60.0 – 67.4%		
• F	≤ 59.9		

Homework:

I grade homework mainly on completeness and the correctness of 4 problems I have chosen from the assignment (1 easy, 2 medium and 1 difficult). **Assignments are due at the beginning of class two days after the lesson is completed in class. I do NOT accept late work, so if your assignment is turned in late, you will receive a zero on the assignment.** Please understand that this is a non-negotiable requirement. This is a college level expectation. I also do not grade every assignment. I will be very selective on the assignments I grade and will not inform you ahead of time of those I grade.

Quizzes:

Quizzes are given only on the lessons that are complete. They are designed to see if you were watching closely during the lessons, practicing the problems in the homework, and making sure you understand the concepts and not just the process. There occasionally will be a full period quiz in the middle of a chapter to assess what you have learned up to that point in the respective chapter. There are no retakes or corrections allowed.

Sign up for class messages: Text the message @precalcB17 to 81010

Tests:

Tests are given at the end of each chapter. These will assess completely all concepts you should have learned in the chapter. They will be designed for full completion in one period. You will NOT be allowed to start a test and come back and complete it later – it must be completed in that period: NO Exceptions. If you are absent on the day of a test, you will be given a completely different test than the rest of the class! There are no retakes or corrections allowed – this is another college expectation.

Final Exam:

The final exam will consist of all material covered in the trimester. You will be expected to recall and recount all concepts in the chapters covered. Again, no retakes or corrections allowed.

Excused Absences:

If you know ahead of time when you will be absent, I have a fairly good idea of what we will be doing so you can get a good idea of what you will miss. If you are sick, it is YOUR responsibility to get the make-up work, I will NOT seek you out. If you are absent on a test day, you have three days from your return to take the test unless there are severe extenuating circumstances, which you can discuss with me.

Unexcused Absences:

Nope, Nada, Not gonna do it. There is absolutely no make-up for any work missed on a day you choose to skip class. This means that if you skip on a day upon which we have a test, don't be surprised when you get a zero on the test. I hate to have to say this, but unfortunately it is a necessary evil I must confront.

Tardies:

Being late, means less time for you on assessments and loss of knowledge for you. That's a chance you take. If it is a perpetual problem, I will deal with it accordingly.

Required Materials:

- Graphing Calculator (I will use a TI-83 and a TI-84, if you have a different one, you will have to use your manual to figure out how to do the things we do in class.)
- Binder and lots of paper solely used for this class
- Graph Paper – you should supply your own for homework
- Pencils – oh yeah, you will use lots of these

One final unfortunate note:

Cell phones must be put away and turned off during class. If you are using it, looking at it, or even admiring it during the lesson or during the worktime, DO NOT come and ask me for help when you don't understand the material. I will NOT help you since you are emanating the message that what we are doing in class is not important to you and/or you understand completely.

In addition to the cell phone policy above, you will be allowed one Quiz and one Homework drop each 6 week grading period of the trimester. {They will not be part of your class grade any longer.} This will occur only if you do not have your cell phone out in class – you will receive one warning for the trimester.

Sign up for class messages: Text the message @precalcB17 to 81010

Topics Covered:

Chapter Four: At the end of the chapter students will be able to do the following –

- Describe an angle and convert between degree and radian measures
- Identify a unit circle and its relationship to real numbers
- Evaluate trigonometric functions of any angle
- Use fundamental trig identities
- Sketch graphs of trig functions
- Evaluate inverse trig functions
- Evaluate the composition of trig functions
- Use trig functions to model and solve real-life problems

Chapter Five: At the end of the chapter students will be able to do the following –

- Use fundamental trig identities to evaluate trig functions and simplify trig expressions
- Verify trig identities
- Use standard algebraic techniques and inverse trig functions to solve trig equations
- Use trig formulas (sum and difference, multiple-angle, power-reducing, half-angle, and product-sum) to rewrite and evaluate trig functions

Chapter Six: At the end of the chapter students will be able to do the following –

- Use Law of Sines and Law of Cosines to solve oblique triangles
- Find areas of oblique triangles
- Represent vectors as directed line segments and perform mathematical operations on vectors
- Find direction angles of vectors
- Find the dot product of two vectors and use properties of the dot product
- Multiply and divide complex numbers written in trig form
- Find powers and n th roots of complex numbers

Chapter Ten: At the end of the chapter students will be able to do the following –

- Write the standard equations of parabolas, ellipses, and hyperbolas
- Analyze and sketch the graphs of parabolas, ellipses, and hyperbolas
- Solve systems of quadratic equations
- Rewrite sets of parametric equations as rectangular equations and find sets of parametric equations for graphs

Chapter Twelve: Limits (We will get to one or two sections of this chapter.)