

Precalculus I

Math 105 sec B

Spring 2008

Bellevue Community College

Instructor:	Edgar Jasso
Office:	L217
email	ejasso@bcc.ctc.edu
Office hrs:	Daily 12:30-1:20 pm

Class Time:	Daily 9:30-10:20 am.
Class Room:	D 103.
Prerequisites:	Placement by assessment, or MATH 099 with a B- or better.
Textbook:	<i>Precalculus, Seventh ed.</i> <i>R. Larson & R. Hostetler (Required)</i>
Calculator:	A Graphing Calculator (Texas TI-83).

class website:	http://scidiv.bcc.ctc.edu/EJ/m105.html
support website:	www.wamap.org
course id:	721
course name:	math105
enrollment key:	math105atbcc

Course description:

This course emphasizes graphs and polynomial functions. Topics include the theory of equations and rational, exponential, inverse, and logarithmic functions. Also covers complex numbers and solving systems of equations using matrices. Fulfills the quantitative or symbolic reasoning course requirement at BCC.

Expectations:

- I expect you to be on time every class period. Showing up is important, but your total attention during class is even more important. It is your responsibility to catch up with the material if you miss a class.
- I expect you to have your Cell phones **on silent mode**. If there is an important or urgent matter that you must attend during a class, you should **leave the classroom** to attend your call or text-message. No tolerance will be given on this matter.
- Math, like many things, is something you learn by practice, so practice a lot! Complete and turn in your homework on time.
- I expect you to be ready to participate in class, to take notes, and **to ask questions**. Ask a question as soon as you feel you are not understanding something presented in class. I encourage you to use the office hours for any question that arises or for help on anything you feel was not clear in class.
- If when solving your homework you have questions, use the office hours to ask me. If the posted office hours conflict with your schedule, make an appointment so we can meet at some other time.
- I expect you to act as a College Student, that you come to class because **you** want to learn the subject and you respect the work of others during class meetings. Any student who significantly disrupts the class and makes it unreasonably difficult for the others to follow will be first warned orally about his actions. If this conduct persists he will be asked to leave the classroom for the remaining of the class period. If this conduct persists in the following classes, a written notice will be forwarded to the Assistant Dean for Student Services for further actions, which may include suspension from the class for a defined period of time, removal from the class for the remainder of the quarter or dismissal from the College.
- I expect you to be honest with your work. No cheating or plagiarism will be tolerated. While there will be group projects/assignments, and I encourage to form study groups for working on the material out of the classroom, **all the exams are for individual work**. Consequences will range from receiving 0.0 on the assignment to receiving 0.0 for the class.

Evaluation:

Your final grade will be determined as follows:

Homework:	15%
In-class activities:	10%
Quizzes:	20%
Exams:	40%
Final:	20%
Total	105%

- Homework: I will assign homework problems every class. These problems are for you to practice **daily** and ask the next day any questions you might have. If there are no questions on the homework, I will assume you know how to solve each of the problems on the list. I will collect **only a subset** of these problems on Fridays, usually one problem from each daily list and grade them carefully, with the same rigor as the quizzes and exams. Each homework assignment will count 10 pts. There will be a 1 pt **penalty per day** for late homework.
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- *In-class activities:* There will be two parts on this: on some class periods I will ask for questions from the homework and will ask you to come up to the board to work on a problem. If you work a problem on the board, please remember me to write down a participation note on my records. Every student must pass at least twice during the quarter. This part will count 50% of your *in-class* grade. The other 50% will come from worksheets or other in-class activities you will work on and turn in the same day.
- *Quizzes:* There will be a short quiz (20 minutes) every Friday there is not an exam with the exception of Friday May 2 (take-home quiz this weekend). The quizzes will be on the material covered the week immediately before and will be answered with *open notes* but *closed books*. There will be absolutely no make-up quizzes; however, your lower score will be dropped at the end of the quarter.
- *Exams:* There will be 4 exams during the quarter. Each exam will last one class period and could include any of the material covered in class up to that date. Again, **absolutely no make-up exams** will be given, but your lowest score will be dropped at the end of the quarter. The exams will be on the following dates (I will keep you posted with any changes):

Exam 1	Friday April 11
Exam 2	Friday April 25
Exam 3	Friday May 16
Exam 4	Friday May 30

- *Final:* A comprehensive final exam will be given on **Wednesday June 11, 9:30-11:20**. You must take the final to receive a passing grade on this class.

Your final grade will be based on the following percentage scale:

Percent	94	90	87	83	80	77	73	70	67	63	60
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F

WAMAP site :

WAMAP is a web based mathematics assessment and course management platform. Its use is provided free to Washington State public educational institution students and instructors. I will set-up an account for our math 105 class at WAMAP. Using the WAMAP site is **totally optional**. There is a forum feature for you to post questions, anybody can see all the questions posted and can provide feedback. I will check the forum frequently and provide help as well. There is also a private messaging system, if you do not want to post a question on the forum.

Students with Special needs:

If you have medical information to share with me in the event of an emergency, please contact me via email or come to see me during office hours. If you need course modifications, adaptations or accommodations because of a disability, I can refer you to our Disability Resource Center (DRC). If you prefer, you may contact them directly by going to B132 or by calling 425.564.2498 or TTY 425.564.4110. Information is also available on their website at <http://bellevuecollege.edu/drc/>

Learning objectives:

By the end of the quarter a successful student should be able to:

- Simplify algebraic, exponential and radical expressions.
 - Solve and graph linear equations and inequalities.
 - Solve absolute value, non-linear and rational inequalities.
 - Simplify complex fractions.
 - Factor expressions and solve equations containing negative and fractional exponents.
 - Identify functions from algebraic, graphical, tabular and verbal representations. Use function notation when evaluating functions and sketching graphs of functions.
 - Identify domain and range of functions.
 - Graph a piece-wise defined function.
 - Identify properties of graphs such as relative and global maximum and minimum, symmetry, increasing, decreasing, even, and odd.
 - Translate the graph of a function and of a circle.
 - Analyze and graph quadratic functions by hand and using a graphing calculator.
 - Find the equations of quadratic functions from given data.
 - Set up and solve quadratic applications, including maximum/minimum problems.
 - Perform operations on functions, including composition of functions.
 - Identify one-to-one functions.
 - Identify, analyze and graph the inverse of a function. Find the inverse of a given function.
 - Analyze and graph polynomials functions of degree greater than 2.
 - Divide two polynomial functions.
 - Apply the Remainder Theorem and Factor Theorem.
 - Perform basic operations on complex numbers.
 - Find real and complex zeros of polynomials.
 - Use a calculator to assist in finding real zeros of polynomials.
 - Graph rational functions.
 - Analyze and graph exponential and logarithmic functions
 - Solve exponential and logarithmic equations.
 - Set up and solve exponential and logarithmic application problems.
 - Solve a non-linear system of equations.
 - Solve a system of linear equations using matrices and a graphing calculator.
 - Set up and solve application problems using a system of equations.
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