Math 191-1232 Spring 2010
Pre-Calculus

Course Times/Location: MW 9:30-10:20 and TTh: 9:30-10:45 am MA109

Instructor: Holly Kresch Office: MA116
Voicemail: (925) 685-1230 ext. 2825
email: hkresch@dvc.edu

Office Hours:
- On Campus: MW: 10:20-11:00 am and 11:30am-12 noon
  TTh:10:45-11:05am
- Online: TTh: 1-2pm http://cccconfer.org passcode: 145781
  Call toll free: 888-886-3951 with passcode: 145781
  For the audio portion.

Prerequisite: Math 120 (Intermediate Algebra) and Math 121 (Trigonometry) or equivalent. Assessment tests are available at the DVC Assessment Center, Pleasant Hill Campus.


Other Materials: Graphing Calculator (no calculators with CAS are allowed on exams, for example no TI89 or laptops), binder or folder, ruler, #2 pencils, colored pencils, eraser, graph paper.

Important Dates:
- Last Day to Add: 2/04/10
- Last day to drop without a “W”: 2/19/10
- Last day to withdraw: 4/30/10
- Last day to withdraw with a refund: 2/02/10

Student Learning Outcomes: The purpose of this course is to... Students will have a working knowledge of elementary functions and their graphs, including polynomial, rational, logarithmic, exponential and trigonometric functions. Students will be proficient in the algebra of functions.
1. SLO #1: Students completing the course will be able to understand and use functions notation in conjunction with a difference quotient.
2. SLO#2: Students completing the course will be able to match equations with their graphs by type: logarithmic, quadratic, circle, square root, rational and exponential
3. SLO#3: Students completing the course will be able to model data using an exponential function
Evaluation and Grading Criteria:
5 Exams: 65%
Comprehensive Final Exam: 35%

Grading Scale: The final course grade will be determined by using the following grading scale:
90-100% - A
80-89% - B
70-79% - C
55-69% - D
0-54% - F

Course Overview: The objectives are that students will be able to:
- Solve rational and absolute value inequalities
- Graph polynomial, rational, exponential, logarithmic and trigonometric functions, both with and without a graphing calculator or a computer algebra system.
- Use polynomial, rational, exponential, logarithmic and trigonometric functions in applications, both with and without a graphing calculator or computer algebra system.
- Find the inverse function that corresponds to a given function
- Find vector sums and differences, both analytically and geometrically
- Resolve vectors into component form
- Convert between Cartesian equations and polar equations
- Solve systems of equations
- Graph conic sections
- Add, subtract, multiply and divide complex numbers
- Expand binomials of power n.

Ultimately, of course, the goal is to prepare students for success in a rigorous calculus course!

The class will have typical lectures, ungraded class work and graded exams. Homework will be assigned nearly every day but will not be graded or collected. Students wishing to succeed in the class should be careful to complete each homework assignment in a timely manner. Students are expected to bring their graphing calculator and textbook to class each day.

DVC Math Lab: Although attendance at the math lab is not required for this course, the DVC Math Lab is available for your use. In addition to you can obtain free tutoring. Please use the computers located near the entrances to log in and out of the math lab each time you use it. See the Math Lab handout for details including hours of operation.
Attendance: Although not an official part of your grade, good attendance is necessary for success in the class so try to make it a priority. Students are expected to arrive on time and stay for the duration of the class! If you must leave early, please let me know at the beginning of the class period and don't make a habit of it.

Make Up Policy: No makeup exams will be given unless arranged in advance. If you miss an exam then I will replace that missing test grade with whatever you receive on the comprehensive final exam.

Honor Policy: During examinations, all cell phones must be turned off and there should be no communication whatsoever between students. No one can leave the classroom without the instructor’s permission. Students must keep their eyes on their own exam and not allow anyone to copy their work. Any student found violating this policy will receive a grade of zero on the exam. In addition, any student found cheating may be assigned a final grade of “F” and/or be reported to the Dean of Student Life for further action.

Adding and Dropping: It is the student’s responsibility to add and/or officially drop the course. You are responsible for managing your own enrollment! Any student who is absent for two weeks may be dropped from the course.

Recycling: Please use the recycling bins located near the elevators in the math building for your recyclable waste.

Food and Drink: Only beverages may be consumed during class time – no food!

Cell Phones: Students should either turn off their cell phones or put them in a “silent” mode during the class time. No texting/talking is allowed during class. Please see the instructor individually if you have a problem with this policy.

Religious Holidays/Athletic or Other School-Related Events: Please notify me at least one week in advance of any absence due to religious holidays, athletic or other school-related events. You are responsible for making up any missed assignments within one week of the absence.

Disruptive Behavior: Students with disruptive behavior will be warned. If the behavior continues they will be asked to leave the classroom and attend an appointment with the Dean of Student Life before they can return.