Professor: Mr. C. Barron  
Email: cbarron@dcccd.edu  
Office Phone Number: 214-860-8634  
Office Number: W 241  
Office Hours: MWF 8-10 A.M.  
Meeting Days & Time: on line  
Room Number: N/A  
Credit Hours: 3 Semester Hours  

Division: Science, Technology, Engineering, & Mathematics (STEM)  
Office Hours: M-F 8:00 A.M.-5:00 P.M.  
Office Phone: 214-860-8760  
Office Number: W 147  

Course Description: This course is an in-depth study and applications of polynomial, rational, radical, exponential, logarithmic, absolute value and piecewise-defined functions, and systems of equations using matrices. Also covered are the graphing calculator, non-linear inequalities, sequences and series, circles, the Binomial Theorem and a review of the classification of the real number system.  
Course Pre-requisites: This is an entry-level course and is open to any student meeting TSI standards of college readiness (student must have appropriate assessment test score or have successfully completed DMAT 0310)  

Course Materials/Supplies Needed  
YOU NEED TO BUY THE SOFTWARE “MY MATH LAB” THAT MATCHES THE CURRENT EDITION OF OUR TEXTBOOK. YOU CAN BUY THE SOFTWARE AT OUR CAMPUS BOOKSTORE OR ON LINE AT WWW.COURSECOMPASS.COM.  
(OPTIONAL) SOLUTION MANUAL (ISBN# 9780321716873)  
TI – 83 OR TI-83 PLUS CALCULATOR OR SIMILAR GRAPHING CALCULATOR  

Core Statement:  
MATH 1314 is a Tier 1 course in the Quantitative Reasoning learning category. “Knowledge and skills that are important to your success in other college courses will be introduced and reinforced in Tier 1. The Quantitative Reasoning category promotes the application of mathematics to increase your ability to solve “real-world” problem. When you are quantitatively literate, you can use logic and critical thinking in new ways.” - Catalog of the Colleges of DCCCD
Core Objectives:
MATH 1314 develops the following Core Objectives:

**Critical Thinking** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.

**Communication** – to include effective development, interpretation and expression of ideas through written and visual communication.

**Empirical and Quantitative Skills** – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Core Objective Development Statement:
MATH 1314 develops **Critical Thinking**, **Communication**, and **Empirical and Quantitative Skills** by requiring students to solve and analyze applications of various functions and systems of equations.

Learning Outcomes
Upon successful completion of this course, students will:
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques
4. Evaluate all roots of higher degree polynomial and rational functions
5. Recognize, solve and apply systems of linear equations using matrices.

Course Outline:
Review   R-1   R-2   R-4   R-7   R-8
Chapter 1  Equations and Inequalities
Chapter 2  Graphs
Chapter 6  Exponential and Logarithmic Functions
Chapter 8  Systems of Equations and Inequalities
Chapter 9  Sequences, Induction, the Binomial Theorem
Chapter 10 Permutations and Combinations
Note: The instructor may omit certain topics in these chapters.

Evaluation Procedures: You will have 5 tests (including a comprehensive final exam). You will also have 21 quizzes and 21 homework assignments. Your course grade will be calculated as follows: (test 1 + test 2 + test 3 + test 4 + final exam + homework average + quiz average) divided by 7.

Weights: Tests – 72% Quizzes- 14% Homework- 14% (As you can see tests count more than homework and quizzes, that is why it is important not to miss a test deadline.)
YOU MUST DO AT LEAST 50% OF ALL HOMEWORK AND QUIZZES IN ORDER TO HAVE DONE ENOUGH WORK TO CALCULATE A HOMEWORK OR QUIZ AVERAGE.

ALL ASSIGNMENTS HAVE DEADLINES.

SINCE THE FINAL EXAM IS COMPREHENSIVE, IT CONTAINS PROBLEMS FROM ALL HOMEWORK AND QUIZZES SO IT IS IMPORTANT NOT TO MISS ANY DEADLINES. FOR EXAMPLE IF YOU MISS THE FIRST DEADLINE YOU WILL NOT KNOW HOW TO DO THE PROBLEMS ON THE FINAL EXAM THAT CAME FROM THE FIRST SET OF HOMEWORK ASSIGNMENTS SINCE YOU WILL NOT HAVE ACCESS TO THOSE ASSIGNMENTS ONCE THE DEADLINE HAS PASSED. MY ADVICE IS TO TAKE NOTES FROM EACH HOMEWORK ASSIGNMENTS AND USE THEM ON THE TESTS (INCLUDING THE FINAL).

THERE ARE NO TIME LIMITS ON TESTS BUT ONCE YOU START A TEST YOU MUST FINISH IT, YOU CANNOT GO BACK TO FINISH IT LATER.

TAKE ADVANTAGE OF ALL THE FEATURES COURSE COMPASS OFFERS YOU. (1) ON SOME (NOT ALL) HOMEWORK PROBLEMS YOU CAN SEE AN EXAMPLE WORKED OUT. (2) YOU CAN CLICK ON “HELP ME SOLVE THIS PROBLEM” IT TAKES YOU STEP BY STEP UNTIL YOU GET TO THE SOLUTION. WE OFFER FREE TUTORING ON OUR CAMPUS BUT THEY WILL ONLY HELP YOU ON HOMEWORK NOT QUIZZES OR TESTS.

ALL TESTS, QUIZZES, AND HOMEWORK ASSIGNMENTS MUST BE TAKEN BY THE DEADLINES LISTED IN THE COURSE CALENDER AT THE END OF THIS SYLLABUS. ANY TEST OR QUIZ NOT TAKEN BY EACH DEADLINE WILL BE
RECORDED AS A ZERO. IF YOU MISS MORE THAN ONE DEADLINE YOU WILL PROBABLY NOT PASS THE COURSE SO PAY ATTENTION TO THE DEADLINES.

DO NOT PRESS THE “SUBMIT” BUTTON UNTIL YOU HAVE FINISHED THE ENTIRE ASSIGNMENT THAT YOU ARE WORKING ON, BECAUSE COURSE COMPASS WILL COUNT ALL THE PROBLEMS YOU DID NOT DO AS WRONG.

YOU SHOULD WORK AHEAD IN CASE AN EMERGENCY COMES UP OR YOU HAVE A COMPUTER PROBLEM BECAUSE THERE ARE NO EXTENSIONS GIVEN WHEN YOU MISS A DEADLINE.

This course is intended for those students that can work with very little supervision from an instructor. You should be familiar how to use a computer and how to enter your answers correctly. For example, you should know how to enter exponents and fractions using your keyboard or the icons on the computer. Follow directions carefully, if the answer is 3 you cannot input x=3 and vice versa.

Please be aware that I did not invent course compass so I do not control how it is set up. For example course compass determines which homework problems have examples and which do not have examples.

I can determine how many chances you have to answer a certain problem. You have 3 chances to enter the correct answer on all homework problems. You have only 1 chance to enter the correct answer on quizzes however you can re take a quiz and course compass will automatically record the highest of the 2 grades.

You have 1 chance to enter the correct answer on all tests. You cannot re take any test so take your time and be sure you enter the answer the way course compass wants it. Tests are not timed but once you start a test you must finish it.

If you want “unlimited” chances to enter a correct answer you should find a professor who lets you do this.

By the time you take a test you should know what form course compass wants your answer in. For example, sometimes course compass wants your answer in
parenthesis and sometime it does not. IF YOU MISS A PROBLEM
BECAUSE YOU DID NOT PUT YOUR ANSWER IN
PARENTHESIS ON A TEST YOU SHOULD HAVE GONE BACK
TO SEE IF YOU PUT YOUR ANSWER IN PARENTHESIS ON
THE HOMEWORK AND QUIZZES.

YOU SHOULD ALWAYS DO ALL ASSIGNMENTS BEFORE THE
DEADLINES BECAUSE YOU NEVER CAN TELL WHAT WILL
COME UP (YOUR COMPUTER FROZE, YOU FORGOT THE
DEADLINE, YOU HAD AN EMERGENCY AND MISSED THE
DEADLINE. ETC.) DO NOT ASK FOR ANY EXTENSIONS. I
ALWAYS HAVE STUDENTS WHO MISS DEADLINES AND
WANT TO KNOW IF I CAN EXTEND THE DEADLINE—THE
ANSWER IS NO. ALWAYS WORK AHEAD.

Instructor Attendance Policy: (edit if needed) N/A

Grading Scale: A 100-90  B 89-80  C 79-70  F- Below 70
NOTE: Mountain View does not give “D”’s in college algebra or other
upper level courses. Anything below a 70 is an “F”.
Note: I often have students who have an 89 average and want to know if I can “give” them one point to make an “A” or students who have a 69 average and want to know if I can “give” them one point so they can pass. Most students do not realize that they are asking for more than 1 point because your course grade is an AVERAGE of ALL of your assignments (tests, quizzes, homework) so what you are really asking me is to add one point to EACH of those assignments. That is a lot of points not just 1 point. So please do not ask me for 1 point if your course average is 89 that stays a “B” and a 79 stays a “C” and so on.

Late Work Policy: No late work accepted.

Makeup Exam Policy: No make ups allowed

Certification Procedures: (For Online Courses) You will be asked to answer the following question in order to be certified: Is this the first on line course you have taken? You must email be your response before the certification deadline (April 16) in order to be certified. Be sure to email your name as well as the course you are currently enrolled in.

The withdraw date for this class is APRIL 14, 2016.

Academic Dishonesty: (edit if needed)
Students that caught plagiarizing an assignment will be subject to an “F” in the course and possible expulsion from the college.

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at https://www1.dcccd.edu/catalog/ss/code.cfm.

Institution Policies: Please visit http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf for a complete list of institutional policies (Stop Before You Drop; Withdrawal Policy; Repeating a Course; Financial Aid; Academic Dishonesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).
Course Calendar

JANUARY 20– First day of the spring semester

FEBRUARY 2- Deadline to be certified as being in the course. (I can only certify those students who have started on the work. If you have not started on the work by this date you need to contact me telling me when you intend to start on your work. YOU NEED TO ANSWER THE FOLLOWING QUESTION by this day in order to be certified: **Is this the first on line course you have taken**

FEBRUARY 12 (FRIDAY)- Deadline for taking test 1 and for finishing Homework assignments 1-6 and Quizzes 1-6. SINCE COURSE COMPASS IS BASED ON THE EAST COAST I WOULD FINISH ALL WORK BY 11 P.M. (C.S.T)

MARCH 2 (FRIDAY)- Deadline for taking test 2 and for finishing Homework assignments 7-10 and Quizzes 7-10.

APRIL 11(MONDAY)- Deadline for taking test 3 and for finishing Homework assignments 1-15 and Quizzes 11-15.

APRIL 14- Deadline for withdrawing.

MAY 6 (FRIDAY)- Deadline for taking test 4 and for finishing Homework assignments 16-21 and Quizzes 16-21

MAY 11 (WEDNESDAY) Deadline for taking the final exam. Last Day of the SPRING semester. You will not be able to access the course after this date