Professor: Dua Kaylani  
Email: dkaylani@dcccd.edu  
Phone Number: 214-662-4451 call/text  
best way to reach me  
Meeting Days & Time: MTWTFSU  
Room Number: online  
Credit Hours: 3 Semester Hours  
Division:  
STEM  
Office Hours: M – F 8am - 5:00 pm  
Office Phone: 214-860-8760  
(Math division number not instructor)  
Office Number: W147  

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

Mandatory:

1. ACCESS CODE for the homework, tests and the eBook, purchased online at pearsonmylabandmastering.com or from the book store  
   You’ll be asked for a course ID, which is kaylani55902

2. TI – 83 OR TI-83 plus calculator

(Optional) SOLUTION MANUAL (ISBN# 9780321716873)
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:
Chapter 1   Equations and Inequalities  
Chapter 2   Graphs  
Chapter 3   Functions and Their Graphs  
Chapter 4   Linear and Quadratic Functions  
Chapter 5   Polynomial and Rational Functions  
Chapter 6   Exponential and Logarithmic Functions  
Chapter 8   Systems of Equations and Inequalities  
Chapter 9   Sequences, Induction, the Binomial Theorem  
Note: The instructor may omit certain topics in these chapters.

Instructor Attendance Policy:
Students are expected to work all: chapter starters, homework, quizzes and tests. Students have the responsibility to do so and to consult with the instructor as needed. If for some reason you must be inactive for more than two weeks, you should inform the instructor prior of your reason.
Financial Aid will not be granted to students who have been certified as not attending, by the certification date. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

Certification policy: You need to work on at least one assignment in order to be certified as attending.

**Grading Scale:**
- 90-100  A
- 80-89   B
- 70-79   C
- 60-69   D
- 0-59    F

**Evaluation Procedures:**
- 15% Homework
- 10% Quizzes (Reviews/practice tests)
- 75% Tests (3 unit tests plus the Final Exam)

All the due dates are online

**Late Work Policy:**
No late work is accepted

**Makeup Exam Policy:**
No makeups

All the homework and tests are online and are open for several weeks, they need to be submitted by the due date, and the large window for each assignment takes away the justification for makeups and late work

The withdraw date for this class is 4/14/2016

**Academic Dishonesty:**
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](https://www1.dcccd.edu/catalog/ss/code.cfm).
**Institution Policies:** Please visit [http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf](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).

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<thead>
<tr>
<th>Course Calendar</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>2-21-16</td>
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<td>Test 2</td>
<td>4-3-16</td>
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<td>Test 3</td>
<td>5-7-16</td>
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<tr>
<td>Final Exam</td>
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