



Mountain View College

DALLAS COUNTY COMMUNITY COLLEGE DISTRICT

COLLEGE ALGEBRA

MATH. 1314. 61017

FALL 2017

08/21/17 – 12/07/17

Professor: Kumars Ranjbaran

Email: kranjb_math@dcccd.edu

Office Phone Number: (214) 860 – 8854

Office Number: W191b

Office Hours: TBA

Meeting Days & Time: T,R; 9:30 – 10:50

Room Number: W231

Credit Hours: 3 semester hours

Division: ***Business, Computer Science and Mathematics***

Office Hours: M – R 7:30 am – 6:00 pm, F- 7:30 am – 5:00 pm

Office Phone: 214-860-8645

Office Number: W210

Both Mountain View College and your instructor reserve the right to make modifications in content, schedule, and requirements as necessary to promote the best education possible within prevailing conditions affecting this course.

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

COLLEGE ALGEBRA, by Sullivan, 10th edition (ISBN# 9780321979490)

(OPTIONAL) SOLUTION MANUAL (ISBN# 9780321979582)

TI – 83 OR TI-83 PLUS CALCULATOR REQUIRED

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 December omit certain topics in these chapters.

Evaluation Procedures:

COURSE GRADE

The course grade is determined by the following components:

1. Attendance, and Participation
2. Homework
3. Practice Tests
3. Tests & Final Exam

1. HOMEWORK:

Homework is the most important learning tool in a course. Once you login to Coursecompass.com, you should follow these steps:

1. Click on Math 1314, on the left hand side.
2. Click on the DO HOMEWORK tab, and you will see the list of your homework assignment with the due date next to each assignment.

There is no penalty for making mistake when you are working on your homework problems. As long as you click on the similar exercises tab, and you solve the problem correctly, you will receive the full credit for that problem. You have up 3 chances, to receive the full credit for the problems.

2. PRACTICE TESTS:

Practice Tests are uploaded into MyMathLab. After you have taken and passed the practice test, then you are ready to take a test. **There are a total of 4 PRACTICE TESTS, and you are allowed to take each of the practice tests up to 3 times, and your highest score will be recorded.**

Your practice Tests are all online, and in order for you to take them you should go to MYMATHLAB.com, and click on **Take a Test** tab. Please, use the planner, on the last page of this syllabus to make sure about the due date of these tests. You are able to print your Practice Test, after completing of your first attempt. One of the lowest Practice test grades will be Dropped.

3. TESTS:

There will be 3 major tests, in addition to a comprehensive final exam.

Your Tests, will be placed in Testing Center. Please, use the planner, on the last page of this syllabus to make sure about the due date of these tests. One of the lowest Test grade will be dropped.

THE DUE DATES ARE SET IN STONE, FOR PRCTICE TESTS, AND THE TESTS!!!

COMPUTING YOUR GRADE:

The course grade will be determined as follows:

- Attendance, and Participation: 10%
- Homework: 25%
- Practice Tests: 15%
- Tests: 50%

FORMULA:

$$\text{Course Grade} = (\text{Attendance, and Participation} * 0.10) + (\text{Ave. H.W.} * 0.25) + (\text{Ave. of Practice Tests} * 0.15) + (\text{Ave. Tests} * 0.50)$$

Grading Scale:

90-100	=A
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80-89	=B
70-79	=C
65-69	=D
65 or less	=F

Late Work Policy:

None

Makeup Exam Policy:

None.

Unless in emergency cases, such as Natural disaster, Hospitalization, and etc...

For every one of these cases, a proper documentation is required for granting a Makeup Exam.

Instructor Attendance Policy:

Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. 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.

DROP POLICY

You are expected to participate in class regularly. You need to consult with the instructor when absences (course inactivity) are necessary for any extended period of time. If you are unable to complete this course, you must officially withdraw by [Thursday November 9, 2017](#). Withdrawing is a formal procedure which you must initiate; **your instructor cannot do this for you.**

The process can be done by mail or email, however, if started soon enough. You must call the counseling center from your home campus. For Mountain View students that is 214-860-3632. **Be sure to e-mail your instructor if you have questions or concerns before dropping the course.**

If you stop participating and do not withdraw, you will receive a performance grade, usually an F. If you are considering dropping this class, please discuss it with me or with a counselor. Often there are other alternatives. We want to help you explore all the alternatives before you drop the course.

All Dallas County Community Colleges charge a higher tuition rate to students registering the third time for a course. This rule applies to the majority of credit and Continuing Education / Workforce Training courses. Developmental Studies and some other courses are not charged a higher tuition rate. Third attempts include courses taken at any DCCCD college since the fall 2002 semester. For further information, go online to: <http://www.DCCCD.edu/thirdcourseattempt> .

The withdraw date for this class is Thursday November 9, 2017.

The **Office of Institutional Equity**, in coordination with DCCCD colleges, has the primary responsibility for reviewing, updating and implementing compliance policies and procedures. The Institutional Equity and Compliance Officer and the Office of Institutional Equity will ensure compliance with College District policies, federal and state laws related to sexual assault, Title IX, Title II (Americans with Disabilities Act) and the Military Veterans Full Employment Act to support diversity and inclusion.

Students with Disabilities:

If you are a student with a disability and/or special needs, or if you think you December have a disability, please contact the college Disability Services Office (DSO). Please note that all communication with DSO is confidential. If you are eligible for accommodations, please provide or request that the DSO send your accommodation letter to me as soon as possible (students are encouraged to contact DSO at the beginning of the semester). For more information regarding the College Disability Services Office, please visit the Student Services website: dccc.edu/DSO Offices or contact DCCCD Office of Institutional Equity at (214) 378-1633.

College Disability Services Offices

Brookhaven	972-860-4673
Cedar Valley	972-860-8119
Eastfield	972-860-8348
El Centro	214-860-2411
Mountain View	214-860-8677
North Lake	972-273-3165
Richland	972-238-6180

A Note on Harassment, Discrimination and Sexual Misconduct

We are committed to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and DCCCD policy prohibit harassment, discrimination and sexual misconduct. If you encounter harassment, sexual misconduct (sexual harassment, sexual assault, stalking, relationship violence, stalking), retaliation or discrimination based on race, color, religion, age, national origin, disability, sex, sexual orientation, gender identity, and/or gender expression, please contact your College Title IX Coordinator or the Office of Institutional Equity. We treat this information with the greatest degree of confidentiality possible while also ensuring student welfare and college safety.

We are concerned about the well-being and development of our students, and are available to discuss any concerns. There are both confidential and non-confidential resources and reporting options available to you. If students wish to keep the information confidential, please contact the college Counseling or Student Health Services. As required by DCCCD policy, incidents of discrimination and/or sexual misconduct shared with faculty will be reported to the College Title IX Coordinator or District Title IX Coordinator. The Title IX Coordinator will contact the student and determine if further investigation is needed. For more information about policies, resources or reporting options, please contact your college Title IX Coordinator or visit www.dcccd.edu/titleIX.

College Title IX Coordinators

Brookhaven	Terri Edrich	TitleIX-BHC@dcccd.edu	972-860-4825
Cedar Valley	Grenna Rollings	TitleIX-CVC@dcccd.edu	972-860-8181
Eastfield	Rachel Wolf	TitleIX-EFC@dcccd.edu	972-860-7358
El Centro	Shanee' Moore	TitleIX-ECC@dcccd.edu	214-860-2138
Mountain View	Regina Garner	TitleIX-MVC@dcccd.edu	214-860-8561
North Lake	Rosemary Meredith(acting)	TitleIX-NLC@dcccd.edu	972-860-3992
Richland	Bill Dial	TitleIX-RLC@dcccd.edu	972-238-6386
Dallas Colleges Online	Le'Kendra Higgs	TitleIX-LEC@dcccd.edu	972-669-6672

District Title IX Coordinator

Office of Institutional Equity LaShawn Grant TitleIX-District@dcccd.edu 214-378-1633

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://www.mountainviewcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx>.

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

Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
August 21, 2017	August 22, 2017 Syllabus, Planner, Mymathlab, and Sections: 1.1, and 1.2	August 23, 2017	August 24, 2017 Section: 1.4	August 25, 2017	August 26, 2017	August 27, 2017
August 28, 2017	August 29, 2017 Section: 2.2, and 2.3	August 30, 2017	August 31, 2017 Section: 3.1	September 1, 2017	September 2, 2017 CENCUS DAY	September 3, 2017

September 4, 2017	September 5, 2017 Sections: 3.2, and 3.3	September 6, 2017	September 7, 2017 Sections: 3.4	September 8, 2017	September 9, 2017	September 10, 2017
September 11, 2017	September 12, 2017 Section: 3.5	September 13, 2017	September 14, 2017 Section: 4.1 Practice Test # 1, (Chs. 1, 2 and 3) Is Available. Anywhere with computer, and internet access	September 15, 2017 Test # 1, (Chs. 1, 2 and 3) Is Available in Testing Center	September 16, 2017	September 17, 2017

September 18, 2017	September 19, 2017 Review for Test # 1	September 20, 2017	September 21, 2017 Practice Test, and Test # 1, (Chs. 1, 2 and 3) Is Due.	September 22, 2017	September 23, 2017	September 24, 2017
September 25, 2017	September 26, 2017 Sections: 4.3 and 5.1	September 27, 2017	September 28, 2017 Test Result	September 29, 2017	September 30, 2017	October 1, 2017
October 2, 2017	October 3, 2017 Sections: 5.1, and 5.2	October 4, 2017	October 5, 2017 Section: 5.3	October 6, 2017	October 7, 2017	October 8, 2017

<p>October 9, 2017</p>	<p>October 10, 2017</p> <p>Sections: 5.4, and 5.5</p>	<p>October 11, 2017</p>	<p>October 12, 2017</p> <p>Section: 6.1</p> <p>Practice Test # 2 (Chapters: 4, and 5) Is Available. Anywhere with computer, and internet access</p>	<p>October 13, 2017</p> <p>Test # 2 (Chapters: 4, and 5) Is Available in Testing Center</p>	<p>October 14, 2017</p>	<p>October 15, 2017</p>
<p>October 16, 2017</p>	<p>October 17, 2017</p> <p>Section: 6.2 Review for Test # 1</p>	<p>October 18, 2017</p>	<p>October 19, 2017</p> <p>Practice Test, and Test # 2 (Chapters: 4, and 5) Is Due.</p>	<p>October 20, 2017</p>	<p>October 21, 2017</p>	<p>October 22, 2017</p>

October 23, 2017	October 24, 2017 Sections: 6.3, and 6.4	October 25, 2017	October 26, 2017 Test Result	October 27, 2017	October 28, 2017	October 29, 2017
October 30, 2017	October 31, 2017 Sections: 6.5, and 6.6	November 1, 2017	November 2, 2017 Section: 6.7	November 3, 2017	November 4, 2017	November 5, 2017

<p>November 6, 2017</p>	<p>November 7, 2017</p> <p>Sections: 8.1, and 8.2</p>	<p>November 8, 2017</p>	<p>November 9, 2017</p> <p>Sections: 8.3, and 8.4</p> <p>Practice Test # 3(Chapters 6, and 8) Is Available. Anywhere with computer, and internet access</p> <p>THE LAST DAY TO DROP WITH “W”</p>	<p>November 10, 2017</p> <p>Test # 3 (Chapters 6, and 8) Is Available in Testing Center</p>	<p>November 11, 2017</p>	<p>November 12, 2017</p> <p>Preparing For your Assignments</p>
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November 13, 2017	November 14, 2017 Section: 9.1, and Review for Test # 3	November 15, 2017	November 16, 2017 Sections: 9.2, and 9.3	November 17, 2017 Preparing For your Practice Test, and Test Assignments	November 18, 2017 Preparing For your Practice Test, and Test Assignments	November 19, 2017 Preparing For your Practice Test, and Test Assignments
November 20, 2017	November 21, 2017 Test Review	November 22, 2017	November 23, 2017 Practice Test, and Test # 3 (Chapter 6 & 8) Is Due.	November 24, 2017	November 25, 2017	November 26, 2017

November 27, 2017	November 28, 2017 Test Result	November 29, 2017	November 30, 2017 Practice Test for Comp. Final Exam. Is Available. Anywhere with computer, and internet access	December 1, 2017	December 2, 2017	December 3, 2017
December 4, 2017	December 5, 2017	December 6, 2017 All Homework assignments and Practice Test for Comp. Final Exam. Is Due.	December 7, 2017 Final Exam.	December 8, 2017	December 9, 2017 Final Grade Will be Posted on econnect by Midnight.	December 10, 2017