COLLEGE ALGEBRA
MATH 1314.63431(93455)
SPRING 2016
01/20/16 – 03/10/16

Professor: Kumars Ranjbaran
Email: kranjb_math@dccc.edu
Office Phone Number: (214) 860 – 8854
Office Number: W191b
Office Hours: TBA
Meeting Days & Time: Online
Room Number: N/A
Credit Hours: 3 semester hours

Division: Science, Technology, Engineering, & Mathematics (STEM)
Office Hours: M – F 8:00 am – 5:00 pm
Office Phone: 214-860-8760
Office Number: W147

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
Required: Student Kit by Pearson is called MyMathLab. This may be purchased through Follet Bookstores http://www.efollett.com, or you may purchase this software online by going to http://www.coursecompass.com

(OPTIONAL) SOLUTION MANUAL (ISBN# 9780321716873)
Course Information
Course ID: ranjbaran05607

Core Objectives:
The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

Student Learning Outcomes
Upon successful completion of this course you should be able to solve problems involving:
1. Solve linear and non-linear equations and inequalities
2. Identify function types
3. Solve function equations

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.

Evaluation Procedures:

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._

**Assessment & Evaluation Procedures of Course Learning Outcomes**

**Evaluation, Grading, & Expectations**

**COURSE GRADE**
The course grade is determined by the following components:

1. Homework
2. 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](http://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 are all online, and in order for you to take them you should go to [MyMathLab.com](http://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. One of the lowest Test grade will be dropped.
THE DUE DATES ARE SET IN STONE, FOR PRACTICE TESTS, AND THE TESTS!!!

COMPUTING YOUR GRADE:
The course grade will be determined as follows:

Homework: 25%
Practice Tests: 15%
Tests: 60%

FORMULA:
Course Grade = (H.W. * 0.25) + (Ave. of Practice Tests * 0.15) + (Ave. Tests * 0.60)

Grading Scale:
90-100 = A
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.

Electronic Devices:
Scientific Calculator.

Certification Procedures: (For Online Courses)
Please, reply to this email (kranjb_math@dcccd.edu), by the CENSUS DAY, which is Tuesday, January 26th, 2016, with the following information:

1. First and last name, as it appear in your admission enrollment papers.
2. An alternate email address, if it is available
3. A phone number, and a time that I can reach you. If you are not in the Central Zone, please indicate your time Zone.

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, February, 25th, 2016. 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. Students registered through the Dallas TeleCollege (open enrollment) can find drop information under the “admissions” section of the TeleCollege web page.

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, February 25th, 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.

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.).

All your homework is due Tuesday, March 8th, 2016, by midnight.

The following is a suggested schedule for you to be ready to take your Tests, and practice Tests on time. You can do one or five sections per day, depending on your own pace.

Course Calendar
# MATH – 1314 – 63431/93455

Online

Mr. Ranjbaran

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<td>Syllabus, Planner, and Setting up MyMathLab</td>
<td>Sections: 1.1, and 1.2</td>
<td>Sections: 1.3, and 1.4</td>
<td>Sections: 1.5, and 1.6</td>
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<td>Practice Test # 1, (Chs. 1 and 2) Is Available. Anywhere with computer, and internet access</td>
<td>Test # 1, (Chs. 1 and 2) Is Available. Anywhere with computer, and internet access</td>
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<td>Practice Test # 2 (Chapters: 3, and 4) Is Available. Anywhere with computer, and internet access)</td>
<td>Test # 2 (Chapters: 3, and 4) Is Available. Anywhere with computer, and internet access)</td>
<td>Sections: 5.2, and 5.3</td>
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<td>Practice, and Test # 2 (Chapters: 3, and 4) Is Due. Anywhere with computer, and internet access)</td>
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<td>Section: 6.6, and 6.7</td>
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<td>February 23, 2016</td>
<td>Test #3 (Chapter 5, and 6) Is Available. Anywhere with computer, and internet access</td>
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<td>February 26, 2016</td>
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<td>February 27, 2016</td>
<td>Section: 9.5, Preparing For your Practice Test, and Test Assignments</td>
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<td>March 4, 2016</td>
<td>Test for Comp. Final Exam. Is Available.</td>
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<td>March 7, 2016</td>
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<td>March 8, 2016</td>
<td>All Homework assignments are due today</td>
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<td>March 9, 2016</td>
<td>Practice, and Test for Comp. Final Exam. Is Due.</td>
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