COLLEGE ALGEBRA
MATH. 1314. 63280
SPRING 2015
1/20/15 – 3/19/15

Professor: Wissam Khazem
Email: Wkhazem@d dcccd.edu
Meeting Days & Time: TR 12:30-3:20
Room Number: W32B
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

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
(OPTIONAL) SOLUTION MANUAL (ISBN# 9780321716873)
TI – 83 OR TI-83 PLUS CALCULATOR REQUIRED

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:**

**Attendance: 10%**
To get 10% you need to be on time every day. You are allowed to have 1 absence (2 tardy is counted as one absence). After the first absence 3 points will be deducted for each class.

**Tests: 45%**
There will be 3 tests each is worth 15% for a total of 45%.

**Final: 15%**
Comprehensive

**Quizzes: 30%**
The quiz consists of selected problems from the HW. I will give the quiz right after the HW questions has been answered. There is no make up for the quiz. If you are not in class you miss it.

**Note:** going to LSC to get tutoring will help you to get better grade in the class. I will add 5 points to each student how accumulate 10 hours of tutoring in the LSC for each test.

**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._
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.

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

Late Work Policy: No late work

Makeup Exam Policy:
No make up

The withdraw date for this class is February 28, 2015

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.).