Mathematics for Business and Social Sciences
MATH 1324 (FLEX TERM)
SPRING 2016
• 03/21/16-05/11/16

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Office Number: W241
Office Hours: T.B.A.
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: Topics from college algebra (linear equations, quadratic equations, functions and graphs, inequalities), mathematics of finance (simple and compound interest, annuities), linear programming, matrices, systems of linear equations, applications to management, economics, and business.

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 (9780321946775)
TI – 83 PLUS OR TI-84 PLUS CALCULATOR REQUIRED or similar calculator

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 recognize the limitations of mathematical and statistical models.
6. 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:

1. Solve and graph the solutions of linear and quadratic equations and linear inequalities
2. Solve and graph polynomial and rational functions
3. Solve exponential and logarithmic equations
4. Determine present and future value from the continuous compound interest formula
5. Determine the present and future value of an annuity
6. Determine the current periodic payment required for the sinking fund and amortization
7. Perform the basic row operations of an augmented matrix to produce reduced form
8. Solve systems of equations using Gauss/Jordan elimination and Matrix Form
9. Perform matrix operations
10. Determine the solution region of a system of linear inequalities

**Course Outline:**

<table>
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<tr>
<th>Review</th>
<th>Chapter 1</th>
<th>Chapter 2</th>
<th>Chapter 3</th>
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**Evaluation Procedures:** You will have 5 tests (including a comprehensive final exam). You will also have 18 quizzes and 18 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 quizzes or tests so be sure to finish all tests before the end of the semester).

In a FLEX term course there are no deadlines for any assignments as long as all work is completed before the semester ends.
FLEX term courses are intended for those students who can work at a faster pace than the regular “long” semester students. You are expected to cover the same amount of material in less time than the regular “long” semester.

If you feel the pace of the course is too much for you then you should consider taking this course in the regular semester.

On line students are expected to do the work without the benefit of a lecture by a live teacher so if you need a lecture course you should think twice before enrolling in an on-line course.

ONCE YOU START A TEST YOU MUST FINISH IT, YOU CANNOT GO BACK LATER TO FINISH IT.

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
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.

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 2 chances to enter the correct answer on all quizzes. You have 1 chance to enter the correct answer on all tests. 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.

IF YOU TAKE A HOMEWORK OR QUIZ TWICE COURSE COMPASS WILL ALWAYS RECORD YOUR HIGHEST GRADE.

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.

Grading Scale:  A 100-90  B 89-80  C 79-70  F- Below 70

Note: I often have students who have a 89 average and they 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 in order to be certified. Be sure to email your name as well as the course you are currently enrolled in.

Withdraw deadline: APRIL 29 (FRIDAY)

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.

**Course Calendar**

MARCH 21(TUESDAY) - First day of SPRING FLEX TERM.

MARCH 29 (TUESDAY)- DEADLINE TO BE CERTIFIED. IN ORDER TO BE CERTIFIED YOU NEED TO EMAIL THE ANSWER TO THIS QUESTION “IS THIS YOUR FIRST ON LINE COURSE?”

APRIL 29- (FRIDAY) DEADLINE TO WITHDRAW FROM THE COURSE.

MAY 11(Wednesday)- Last Day of the FLEX Term semester. You will not be able to access the course after this date.