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 Prerequisites: 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
YOU NEED TO BUY THE SOFTWARE “MY MATH LAB” THAT MATCHES THE CURRENT EDITION OF OUR TEXTBOOK. YOU CAN BUY THE SOFTWARE AT OUR CAMPUS BOOKSTORE OR ON LINE AT WWW.COURSECOMPASS.COM.


(OPTIONAL) SOLUTION MANUAL (9780321946775)

TI – 83 PLUS OR TI-84 PLUS OR ANY GRAPHING CALCULATOR THAT HAS THE FOLLOWING KEYS: e^x (exponential), P (permutations) C (combinations) and logarithmic functions

THECB Learning Outcomes
Upon successful completion of this course, students will:
1. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.
2. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.
3. Apply basic matrix operations, including linear programming methods, to solve application problems.
4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.
5. Apply matrix skills and probability analyses to model applications to solve real-world problems.

Core Statement:
MATH 1324 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 1324 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 1324 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to solve and analyze applications of various functions to management, economics, and business.

Course Outline:
Chapter 1 \( \rightarrow \) A Library of Elementary Functions
Chapter 2 \( \rightarrow \) Functions and Graphs
Chapter 3 \( \rightarrow \) Mathematics of Finance
Chapter 4 \( \rightarrow \) Systems of Linear Equations; Matrices
Chapter 6 \( \rightarrow \) Linear Programming: Simplex Method (optional)
Chapter 7 \( \rightarrow \) Logic, Sets, and Counting

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.
ALL ASSIGNMENTS (homework, quizzes, tests) HAVE DEADLINES AND ONCE THE DEADLINE PASSES YOU WILL NOT BE ABLE TO WORK THOSE ASSIGNMENTS.

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.

ANY TEST OR QUIZ NOT TAKEN BY EACH DEADLINE WILL BE RECORDED AS A ZERO. IF YOU MISS MORE THAN ONE DEADLINE YOU WILL PROBABLY NOT PASS THE COURSE SO PAY ATTENTION TO ALL DEADLINES LISTED IN THE COURSE CALENDER AT THE END OF THIS SYLLABUS.

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.

ALL GRADES COUNT AND NO GRADE IS Dropped. HOMEWORK ASSIGNMENTS DO NOT HAVE DEADLINES AS LONG AS YOU FINISH ALL HOMEWORK BEFORE THE END OF THE SEMESTER. ALL YOU SHOULD WORK AHEAD IN CASE AN EMERGENCY COMES UP OR YOU HAVE A COMPUTER PROBLEM BECAUSE THERE ARE NO EXTENSIONS GIVEN WHEN YOU MISS A DEADLINE.

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 1 chances to enter the correct answer on all quizzes, however, you may re-take a quiz if you want to raise your grade. Course compass will automatically record your highest grade. You have 1 chance to enter the correct answer on all tests so be careful and take your time when taking a test. Test do not have time limits but once you start a test you must finish it.

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.**

**YOU SHOULD ALWAYS TAKE ALL QUIZZES OR TESTS BEFORE THE DEADLINES BECAUSE YOU NEVER CAN TELL WHAT WILL COME UP (YOUR COMPUTER FROZE, YOU FORGOT THE DEADLINE, YOU HAD AN EMERGENCY AND MISSED THE DEADLINE. ETC.) ANY TEST AND QUIZ NOT TAKEN BY THE DEADLINE WILL BE RECORDED AS A ZERO. DO NOT ASK FOR ANY EXTENSIONS. I ALWAYS HAVE STUDENTS WHO MISS DEADLINES AND WANT TO KNOW IF I**
CAN EXTEND THE DEADLINE—THE ANSWER IS NO.
ALWAYS WORK AHEAD.

**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

**Weights:** Tests- 72%  Homework – 14%  Quizzes -14%

(As you can see tests count more than homework and quizzes, that is why it is important not to miss a test deadline.

**ALL ASSIGNMENTS HAVE DEADLINES.**  **SINCE THE FINAL EXAM IS COMPREHENSIVE IT CONTAINS PROBLEMS FROM ALL HOMEWORK AND QUIZZES SO IT IS IMPORTANT NOT TO MISS ANY DEADLINES.**  **FOR EXAMPLE IF YOU MISS THE FIRST DEADLINE YOU WILL NOT KNOW HOW TO DO THE PROBLEMS ON THE FINAL EXAM THAT CAME FROM THE FIRST SET OF HOMEWORK ASSIGNMENTS ONCE THE DEADLINE HAS PASSED. MY ADVICE IS TO TAKE NOTES FORM EACH HOMEWORK ASSIGNMENTS AND USE THEM ON TESTS(INCLUDING THE FINAL).**

**Note:** I often have students who have a 89 average and what 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.

The withdraw date for this class is APRIL 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.

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

January 20- First day of the SPRING semester

February 2- Deadline to be certified as being in the course. (I can only certify those students who have started on the work. If you have not started on the work by this date you need to contact me telling me when you intend to start on your work. YOU NEED TO ANSWER THE FOLLOWING QUESTION BY THIS DAY IN
ORDER TO BE CERTIFIED: Is this the first online course you have taken?

February 12 (FRIDAY)-Deadline for taking test 1 and for finishing Homework assignments 1-6 and Quizzes 1-6

MARCH 4 (FRIDAY)- Deadline for taking test 2 and for finishing Homework assignments 7-10 and Quizzes 7-10

APRIL 11(MONDAY)- Deadline for taking test 3 and for finishing Homework assignments 11-14 and Quizzes 11-14

APRIL 14 (Thursday)- Deadline for withdrawing.

MAY 6 (FRIDAY)- Deadline for taking test 4 and for finishing Homework 15-18 and Quizzes 15-18

MAY 11(Wednesday)- Deadline for taking the final exam. Last Day of the SPRING semester. You will not be able to access the course after this date.