

MATH 141-527: Business Mathematics I

FALL 2010

About your instructor

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Math 251 Course Home Page URL address: <http://calclab.math.tamu.edu/docs/math141/>

CATALOG DESCRIPTION: (CREDIT 3.0) Business Mathematics I. Linear equations and applications, systems of linear equations, matrix algebra and applications, linear programming (graphical method), probability and applications, statistics. *PREREQUISITES:* High school Algebra I& II and Geometry. *CREDITS:* 3 credits.(Credit will not be given for more than one of MATH 141 and 166.)

REQUIRED MATERIALS:

- *Textbook:* Tan, S. T., Finite Mathematics for the Managerial, Life, and Social Sciences, 9th Edition, Thomson, Brooks/Cole. ISBN 0-495-38753-3
- *Calculator:* A TI-83/84 or TI-83/84 Plus is required. You must bring your calculator to each class. Calculators are allowed on exams but you must clear and reset the memory before each exam. You may not share calculators during exams or quizzes. I will consider any illegal use of calculators on exams or quizzes as academic dishonesty and report it to the Aggie Honor Council.
- *Texas A&M Student ID:* Bring your student ID to all exams.
- *WebAssign Access Code:* For the homework you will need to purchase an access code.

EXAMS: There will be three in-class exams and a comprehensive final. **I will not curve your test grades.** Once an exam is returned, I will not give a makeup for that exam. If you believe that you have a valid reasons for receiving a makeup after the exams have been returned, then talk to me. Any question regarding grading/scoring must be done within one week of the return of the exam or no change to the grade will be made.

EXAM SCHEDULE: There will be three exams tentatively on Thursday 9/23/, 10/21, 11/18. Final exam will be on Friday, 12/10, 12:30-2:30 p.m.

GRADE INGREDIENTS: Three in class exams (18% for each), cumulative final exam (23%), Online Homework (10%), Quiz (13%).

LETTER GRADES: A(90-100%), B(80-89%), C(70-79%), D(60-69%), F(0-59%)

(I have been known to curve final grades if I feel that it is warranted.)I will be posting grades during the semester on WebAssign GradeBook.

CLASS ANNOUNCEMENTS AND E-MAIL POLICY: Class announcements will be posted on my home page. It is your responsibility to check them weekly. Some important course announcements might be sent to your TAMU e-mail account. It is your responsibility to check the TAMU account and get familiar with the announcements. Also, because of privacy rights, I cannot discuss grades via email or over the phone.

CELL PHONE/LAPTOP COMPUTER POLICY: As a courtesy to me and your classmates, all cell phones and laptop computers (and other electronic devices) must be OFF and put away during lecture.

ON-LINE HOMEWORK will be assigned from the WebAssign Homework system. All information regarding online homework can be found at

<http://www.math.tamu.edu/courses/eHomework/>

Late homework will not be accepted.

QUIZZES: Announced and unannounced quizzes will be given throughout the semester during class. No make-up quizzes will be given without written verification of a University excused absence. Some quizzes will be done during lecture in exam format, i.e., no notes and no books allowed, while other quizzes will be given as take-home assignments. Your lowest quiz grade will be dropped before computing your final quiz average.

SUGGESTED HOMEWORK: Your daily suggested homework will not be turned in for a grade. These problems will not be graded. However, it is IMPERATIVE YOU DO THE SUGGESTED HOMEWORK TO PREPARE FOR QUIZZES AND EXAMS!!!

ATTENDANCE: To succeed in this class, attendance is a necessity. Come to class on time.

MAKE-UP POLICY: Make-ups for missed quizzes, home assignments and exams will only be allowed for a university approved excuse in writing. Wherever possible, students should inform the instructor before an exam or quiz is missed. Consistent with University Student Rules, students are required to notify an instructor by the end of the next working day after missing an exam or quiz. If there are confirmed circumstances that do not allow this (a written confirmation is required), the student has two working days to notify the instructor. Otherwise, they forfeit their rights to a make-up.

LATE WORK POLICY: No late work will be accepted unless there is a university approved excuse in writing.

GETTING HELP: First, if you have a question, do not hesitate to ask before, after, or during a class. Second, I encourage you to attend my office hours to get individual help. You do not need an appointment to come to regular office hours. If your schedule does not permit you to come to the announced office hours, send me an e-mail with your schedule and we will make an appointment to meet at some other day/time.

Other sources of help include streaming videos, help sessions, and week-in-reviews.

STUDENTS WITH DISABILITIES: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Services for Students with Disabilities (Cain Hall, Room B118, or call 845-1637).

COPYRIGHT POLICY: All printed materials disseminated in class or on the web are protected by Copyright laws. One copy (or download from the web) is allowed for personal use. Multiple copies or sale of any of these materials is strictly prohibited.

SCHOLASTIC DISHONESTY: Copying work done by others, either in class or out of class, looking on other students papers during exams or quizzes, having possession of unapproved information in your calculator/computer/phone, etc., and/or having someone else do your work for you are all acts of scholastic dishonesty. These acts, and other acts that can be classified as scholastic dishonesty, will be prosecuted to the full extent allowed by University policy. In this class, collaboration on graded assignments, either in class or out of class, is forbidden unless permission to do so is granted by the instructor. For more information on university policy regarding scholastic dishonesty, see University Student Rules at <http://studentrules.tamu.edu/>.

"An Aggie does not lie, cheat, steal, or tolerate those who do." Visit <http://www.tamu.edu/aggiehonor> and follow the rules of the Aggie Honor Code.

TENTATIVE WEEKLY SCHEDULE: All changes will be announced in class or via e-mail.

Week 1: Chapter 1	Week 2: 2.1, 2.4, 2.5,2.6	Week 3: 2.2, 2.3, 2.7
Week 4: 2.7, Exam 1, 3.2	Week 5: 3.1, 3.3, 6.1	Week 6: 6.2, 6.3, 6.4
Week 7: 6.4, 7.1, 7.2, 7.3	Week 8: Exam 2, 7.4, 7.5	Week 9: 7.5, 7.6, 8.1
Week 10: 8.2, 8.3, 8.4	Week 11: 8.4, 8.5, 8.6	Week 12: Exam 3, 5.1
Week 13: 5.2, 5.3	Week 14: 5.3, 9.1, 9.2	

LEARNING OUTCOMES: Students should be able to demonstrate an understanding of the material as covered during lectures and demonstrate ability to use these concepts on exams, quizzes and homeworks.

- The students will learn about linear functions and their applications in mathematical models.
- The students will learn the method of least squares.
- The students will learn to translate a word problem into a mathematical system of equations or inequalities.
- The students will solve a system of equations and interpret the solutions.
- The students will learn about matrices and their operations.
- The students will learn about the Leontief Input-Output Model.
- The students will learn the graphical method to solve a linear programming problem.
- The students will learn about simple interest, compound interest and annuities.
- The students will learn about sets and set operations.
- The students will learn about Venn diagrams.
- The students will learn different counting methods: multiplication principle, combination, and permutations.
- The students will learn about probability and its applications.
- The students will learn conditional probability.
- The students will learn about random variables and expected value.
- The students will learn statistics: mean, median, mode, standard deviation,..
- The students will learn the binomial distribution.
- The students will learn the normal distribution.
- The students will learn about Markov chains and regular Markov chains.

NOTE: This syllabus is subject to change at the instructor's discretion. The instructor reserves the right to make any changes he considers academically advisable. It is your responsibility to attend classes and keep track of the proceedings.

GOOD LUCK IN YOUR STUDIES!