

MGSC 498T - FUNDAMENTAL BUSINESS SKILLS
All Sections

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Class Time: Tuesdays - 8:10pm to 10:10pm ; Saturdays – 8:30pm to 12:00pm

Text: *Mathematics with Applications* (7th Edition), by Lial & Hungerford ISBN 0-321-02294-7
Student's Solution Manual ISBN 0-321-03953-X (Recommended)

Course Notes: Will be posted to the class Blackboard site in Adobe Acrobat PDF format.

Objective: This course is intended to provide you with the quantitative background necessary for an understanding of the concepts and business principles covered in the PMBA curriculum.

Grading: Your grade for this course will be based on three exams. Your final grade will be determined as follows:

Exam 1 -	33%
Exam 2 -	33%
<u>Exam 3 -</u>	<u>34%</u>
Grade -	100%

This course is graded on a pass/fail basis. To receive a passing grade, you must have a final grade of at least 70 percent.

Homework: You will not be assigned specific homework problems. You must realize though, that a thorough understanding of the material covered in the text (and class meetings) will require that you practice by working problems. I leave it to you to decide how much to practice each type of problem. Some students will probably need to work every problem in the text, while others may be comfortable after working only a few problems of each type.

Exams: The three exams will be designed to test your knowledge on "new" material covered, and are not intended to be cumulative. However, some of the concepts covered in this course will build upon material from earlier, so don't be surprised if you see some material on more than one exam. The final exam will have problems on important concepts from earlier in the course.

This is not a course in memorization. You will be provided a formula sheet at each exam.

General: I expect you to come to class prepared. If you have difficulty with problems and want me to solve them in class, please give me some notice ahead of time if possible so I can be prepared. You can contact me by phone, fax, email or appointment for face-to-face time. I will assist you in any way possible

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<u>Date</u>	<u>Topic</u>	<u>Chapter(s)</u>
Sept. 9	Fundamentals of Algebra	1 (1.1-1.3)
Sept. 13	Saturday class day - Columbia 8:30-12:00 Fundamentals of Algebra Graphs, Equations & Inequalities	1 (1.4-1.6) 2(2.1-2.3)
Sept. 16	Graphs, Equations & Inequalities Functions and Graphs	2(2.4-2.6) 3(All)
Sept. 23	Functions and Graphs Quadratic Functions	3(All) 4(4.1-4.2)
Sept 30	Quadratic Functions Systems of Linear Equations	4(4.3-4.4) 7(7.1)
Oct. 4	Saturday class day - Columbia 8:30-12:00 Systems of Linear Equations (May also finish Quadratic Functions) Review for exam 1	7(7.2)
Oct 7	EXAM I (covers Chapter 1 – Chapter 7.2)	
Oct. 14	Fall Break – No Class	
Oct. 21	Matrix Operations	7(7.3-7.5)
Oct. 25	Saturday class day - Columbia 8:30-12:00 Matrix Operations Graphing Linear Inequalities in Two Variables	7(7.3-7.5) 8(8.1)
Oct. 28	Differential Calculus	12 (12.1-12.5)
Nov. 4	Differential Calculus	12 (12.6 & 12.8)
Nov. 8	Saturday class day - Columbia 8:30-12:00 Applications of the Derivative Review for exam 2	13 (13.1-13.3)
Nov. 11	EXAM 2 (covers Chapter 7.3 – Chapter 13)	
Nov. 18	Integral Calculus	14(14.1-14.4)
Nov. 25	Thanksgiving – No Class	
Dec. 2	Integral Calculus Multivariate Calculus	14(14.1-14.4) 15 (15.1-15.3)
Dec. 9	EXAM 3 (covers Chapter 14 – Chapter 15 and some important concepts from earlier)	