

THE COLLEGE OF STATEN ISLAND
DEPARTMENT OF MATHEMATICS

SPRING 2007
PM,SR/ab

MTH 121 – Finite Mathematics

Required Text: Mathematical Applications for the Management, Life and Social Sciences, 8th Edition
by Harshbarger and Reynolds, Houghton Mifflin Co. Publishers

Required Calculator: TI-83

Required Guide: Easy Steps to Success: A Graphing Calculator Guide
by Yocco and Harshbarger, Houghton Mifflin Co. Publishers

Handout: Calculator supplement for TI82/83 calculators. (supplement also available on website:
www.csi.cuny.edu/courses/syllabi then click on **TI82/83 Instructions**)

LESSON	TOPIC	SECTION	HOMEWORK ASSIGNMENT
1	Solution of Linear Equations in 1 Variable	1.1	69/1,3,5,7,9,13,15,17,23,25,27
2	Applications of Linear Equations in 1 Variable	1.1	69/41-51 odd
3	Functions	1.2	80/5-7,13,15,27,29,31,33
4	Operations on and applications of Functions	1.2	81/35,37,39a,b,40a,b, 43,51, 57, 61
5	Linear Functions	1.3	93/1,3,7,9,10,11,12,19-33 odd,34, 35,37
6	Parallel & Perpendicular Lines, Applications Of Linear Functions, Review Graphing Lines	1.3	93/39-49 odd, 55
7	Introduction to using the Calculator	Handout p.1-14	Handout: 9/3a,b,c;4b,c,d;5; 14/1;2a,b,c;3a,b,h
8	Graphing, Zooming and Tracing on Calculator	Handout p.15-23	Handout: 21/1a,b,c,d; 2a,b; Text: 104/1-15 odd
9	Graphs and Graphing Utilities	1.4	104/19,23-31 odd, 39,43,45
10	Solutions of Systems of Linear Functions	1.5	116/1-5,7,9,11,13,15,16,21,23,37, 39,47
11	Cost, Revenue & Profit Functions, Breakeven Analysis	1.6	126/1,3,5,9,17,19,21
12	Supply & Demand Functions, Market Equilibrium	1.6	128/29,31,33,35,39,41,45,47
13	REVIEW		
14	TEST #1		
15	Quadratic Equations	2.1	148/1,5,9,11,13,19,27,29,31, 37,40,43
16	Quadratic Functions	2.2	158/3,5,6,9,17,21,31,33
17	Business Applications of Quadratic Functions	2.3	167/2,5,9,15,17,21,25,29
18	Special Functions & their Graphs	2.4	179/1-11 odd,15,17,18,21,37, 39,47, 53
19	Matrices	3.1	215/1-13, 15, 27,29,31,37
20	Multiplication of Matrices	3.2	227/1-11 odd, 15,17,32,39
21	Augmented Matrices, Row Operations, Reduced Form	3.3	243/1,2,3,5,7; 228/25,45
22	Solving Systems by Gauss-Jordan Elimination	3.3	243/11-21 odd, 51

<u>LESSON</u>	TOPIC	SECTION	HOMEWORK ASSIGNMENT
23	Solving Systems with Non-unique Solutions & Applications	3.3	244/23,25,26,29,31,35,53,57
24	REVIEW		
25	TEST #2		
26	Inverses of 2x2 and Diagonal Matrices	3.4	257/1-13 odd,41, 43,45,47,49,50
27	Inverses of any Square Matrix	3.4	258/15,17,18,19,21
28	Matrix Equations	3.4	258/25-37 odd
29	Leontief Input-Output Open Model	3.5	270/1,3,5,13-19 odd
30	Leontief Closed Model	3.5	272/31,35,36,37,38
31	Exponential Functions	5.1	367/1,3,7,9,15,17,18
32	Application of Exponential Functions	5.1	368/29-35
33	Logarithmic Functions	5.2	380/1-19 odd
34	Logarithm Properties	5.2	380/21-37 odd, 38,39
35	Change of Base	5.2	381/43,44,45,47,52,67
36	Solution of Exponential Equations	5.3	392/1,5,9,13,16,17,19,21
37	Applications of Exponential & Logarithmic Functions	5.3	393/23-33 odd,35,36,37
38	REVIEW		
39	TEST #3		
40-42	REVIEW for FINAL EXAM		