

Fall 2015  
MT

THE COLLEGE OF STATEN ISLAND, CUNY  
DEPARTMENT OF MATHEMATICS

**MATH 121 – FINITE MATHEMATICS**

**COURSE OUTLINE**

Text: Students should buy the custom textbook, Finite Math and Business Calculus with WebAssign. (This custom textbook for MTH 121-221 includes chapters 1-4 of Stewart, Redlin, Watson, Precalculus, 6th Edition, which is the part used in MTH 121).  
Cengage Learning (2015). ISBN# 9781305749627

Calculator: A graphing calculator is required. The TI-84 is highly recommended.

Note: Below, each lesson corresponds to a one-hour class. Homework problems must be submitted online using WebAssign.

<b>Lesson</b>	<b>Section</b>	<b>Topic</b>	<b>Homework Problems</b>
1	1.2	Exponents and Radicals	41,46,50,52,65,68,70,74,93, 98
2	1.3	Algebraic Expressions	21,50,71,79,94,121,125
3	1.4	Rational Expressions	10,20,30,44,54,69,72,76,78, 102
4	1.5	Solving Equations	20,26,27,36,49,85,89,93,105, 117
5	1.5	Solving Equations	
6	1.6	Modeling with Equations	21,28,37,41,51,53,62,69,73,88
7	1.6	Modeling with Equations	22, 23, 25
8	1.7	Inequalities	32,33,35,49,81,83,99,100,109,117
9	1.10	Equations of Lines	12,13,15,18,22,28
10	1.10	Parallel and Perpendicular Lines	31,35,38,39,46
11	1.10	Slope as Rate of Change	65,68,70,72,73, 69
12		Review	
13		<b>Exam 1</b>	
14		<b>Exam 1</b>	
15	2.1	Functions	20,23,27,36,48,55,76,81, 69, 77
16	2.2	Graphs of Functions	13,17,20,24,28,34,49,51
17	2.2	Graphs of Functions	53,57,61,69,70, 83
18	3.1	Quadratic Functions	9,13,15,17,20,23
19	3.1	Max/min Values of Quadratic Functions	34,45,51,56,68
20	3.2	Polynomial Functions	27,28,29,30,47,48,49,50,59,62
21	3.2	Polynomial Functions	80,81,82
22	Focus	Modeling with Functions	(p.220) 19,20,21,24,26,29
23	3.1	Modeling with Quadratic Functions	63,64,65,66, 75,77
24	3.7	Rational Functions	12,13,16
25	3.7	Horizontal and Vertical Asymptotes	28,30,32,48,56,64

