

THE COLLEGE OF STATEN ISLAND, CUNY  
DEPARTMENT OF MATHEMATICS

**MATH 121 – FINITE MATHEMATICS  
COURSE OUTLINE**

Materials: WebAssign access code for e-book and homework assignments based on Stewart, Redlin, & Watson, Precalculus, 6th Edition, Cengage Learning (2015). WebAssign ISBN: 978-1337775465.

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.

Lesson	Section	Topic	Homework Problems
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	Focus	Modeling with Functions	(p.220) 19,20,21,24,26,29
21	3.1	Modeling with Quadratic Functions	63,64,65,66, 75,77
22	3.2	Polynomial Functions and Graphs	8,10,22,28,46,54,64
23	3.2	Polynomial Functions and Graphs	72,74,75,76,78
24	3.7	Rational Functions	12,13,16
25	3.7	Horizontal and Vertical Asymptotes	28,30,32,48,56,64
26		Review	

