BRONX COMMUNITY COLLEGE Of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

SYLLABUS: MTH12 – INTRODUCTION TO MATHEMATICAL THOUGHT [3 CREDITS, 3 HOURS]

PREREQUISITE: MTH03 or equivalent; corequisite ENG02 and/or RDL02, if required

TEXT: "Fundamentals of Mathematics" by William M. Setek Jr, and M. A. Gallo, 11th edition, Pearson, 2009

SETS

	SEIS			
	2.1, 2.2	· ·	p. 77, 1 – 12	
	2.3	Subsets	p. 82, 1 – 11	
	2.4	Set Operations	p. 87, 1 – 8	
	2.5	Pictures of Sets (Venn Diagrams)	p. 97, 1 – 7, 12	
	2.6	An Application of Sets and Venn Diagrams	p. 101, 1 – 19 odd	
	LOGIC			
	3.1, 3.2	Introduction, Statements and Symbols	p. 126, 1 – 9 odd	
	3.4	Truth Tables	p. 143, 1 – 17	
	3.5	Conditional and Biconditional	p. 155, 1 – 29 odd	
	3.6	De Morgan's Law and Equivalent Statements	p. 160, 1 − 21 odd	
	3.7	The Conditional	p. 191, 1 – 26	
	3.10	Valid Arguments and Venn Diagrams		
	PROBABILITY			
	4.1, 4.2	Introduction, Definition of Probability	p. 215, 1 - 7	
	4.3	Sample Spaces	p. 224, 1 – 7	
	4.4	Tree Diagrams	p. 227, 1 – 5	
	4.7	Counting, Ordered Arrangements, and Permutations	p. 258, 1 – 11, 15 – 19	
	4.8	Combinations	p. 265, 1 – 13	
	4.9	More Probability	p. 269, 1 – 13 odd	
	STATIS	STICS		
	5.1, 5.2	Introduction, Measures of Central Tendency	p. 287, 1 – 19 odd	
	5.3	Measures of Dispersion	p. 297, 1 – 13 odd	
	5.6	The Normal Curve	p. 327, 1 – 13 odd	
	CONSUMER MATHEMATICS			
	12.4	Markups and Markdowns	p. 727, 1 – 13 odd	
	12.5	Simple Interest	p. 732 , $1 - 19$ odd p. 732 , $1 - 19$ odd	
	12.6	Compound Interest	p. 738, 1 – 29 odd	
	12.8	Life Insurance	p. 739, 1 – 13 odd	
	12.0	Installment Buying	p. 756, 1 – 15 odd	
	12.10	Mortgages	p. 761, $1 - 19$ odd	
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RK, AW/2009