BRONX COMMUNITY COLLEGE of the City University of New York DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

SYLLABUS: MTH 06 – Intermediate Algebra and Trigonometry (0 credits, 6 hours per week)

PREREQUISITES: MTH 05 or equivalent and RDL 02 if required.

TEXT: Elementary and Intermediate Algebra , **Fifth Edition** (The **Hutchinson** Series in Mathematics)

AUTHORS: Baratto, Bergman

PUBLISHER: McGraw-Hill, 2013

SUPPLEMENTARY TEXT: Trigonometry -- ISBN: 9781475074574; Electronic version can be downloaded at http://mecmath.net/trig/trigbook.pdf

AUTHOR: Michael Corral

Note to Students: A scientific calculator with trigonometric functions such as sin, cos is required

SECTIONS	TOPICS	SUGGESTED	EXERCISES	
CHAPTER 7 Radicals and Exponents (12 hours)				
	dical Expressions Radical Expressions Il Equations nents	pp. 560-561: pp. 573: pp. 584-585: pp. 593-595: pp. 603-604: pp. 611-613:	1-67 odd, optional 59-77 odd 1-73 odd 1-85 odd 1-9 odd, 15-49 odd, 81-89 odd 1-105 odd 1-85 odd	
CHAPTER 8 Quadratic Functions (8 hours)				
8.1 Solving Quadratic8.2 The Quadratic For8.3 An Introduction to8.4 Problem Solving vCHAPTER 9 Ratio	mula Parabolas	pp. 634-639: pp. 652-654: pp. 666-668: pp. 678-680:	1 – 81 odd, 89-97 odd, 107-113 odd 1-83 odd 1- 53 odd 1-21 odd, 41-44	
9.2 Multiplying an		pp. 698-700: pp. 710: pp. 722-723: pp. 731: pp. 762-766:	1-77 odd 1-41 odd 1-59 odd 1-39 odd 1-101 odd	
CHAPTER 10 Exponential and Logarithmic Functions (8 hours)				
10.4 Exponential Functions 10.5 Logarithmic Functions		pp. 819-820: pp. 832-833:	1-49 odd 1-73 odd	

Trigonometry Supplement:

The Trigonometric Ratios (4 hours), pp. 1-12	p.5-6: 1-15 odd; p.12-13: 1-33 odd
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The Trigonometric Functions and

Cartesian Coordinates (5 hours), pp. 24-31 p. 31: 1-39 odd

Rotations and Reflections of Angles (2 hours), pp. 32-36 p. 37: 1-13 odd

Circles and Radian Measure (4 hours), pp. 87-89; 90-93, p.94: 1-6

The Unit Circle and

the Trigonometric Functions (5 hours), pp. 103 p. 108: 13,14,15

Graphing the Trigonometric Functions (6 hours), pp. 103-108 p. 108: 1,9,10

(Explore graphs of the type $y = A \sin x$, $y = A \cos x$ only)

Trigonometric Identities (2 hours), pp. 65 - 69 p. 70: 1,2,5-15 odd

KF/January 2003 Updated SEP July 2003, SEP Jan 2004, MM Jan 2005,

PhRo: May 2007, Feb 2008, Aug 2008, IP Dec 2010, IP Sep 2013, QF Aug 2016