LONG ISLAND UNIVERSITY *DEPARTMENT OF MATHEMATICS
MATHEMATICS 30 – SYLLABUS * PREREQUISITE – MATH 10

TEXT: Stewart, Redlin, & Watson, PRECALCULUS 4TH Ed. Brooks/Cole.

COURSE GUIDELINES: a) The final grade is based on a minimum of three tests and a cumulative final. b) There are no take-home or make-up examinations. c) Each class meeting lasts 100 minutes.

HOMEWORK PROBLEMS: The student is encouraged to attempt at least all the odd-numbered problems assigned. Some of the problems involve only routine calculations while others call for some basic manipulative skills. It is trite but true that you only learn mathematics when you do it yourself.

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3	1.7, Inequalities	(pg. 87) 1-65
	1.8, Coordinate geometry	(pg. 100) 1-37, 73-85
	1.10, Lines	(pg. 124) 1-57, (pg. 130) 87-98
	2.1, What is function	(pg. 151) 1-33, (pg. 154) 43-60
	2.2, Graphs of functions	(pg. 165) 1-72
	2.5, Transformation of functions	(pg. 194) 1-40, 59-60
4	2.6, Extreme values of function	(pg. 204) 1-33
	2.8, Combine functions	(pg. 225) 1-49
	2.9, One to one function	(pg. 236) 1-50
	3.1, Polynomial functions	(pg. 269) 1-36
	3.2, Dividing polynomials	(pg. 278) 1-50
	3.3, Real zeros of polynomials	(pg. 287) 1-70
	3.4, Complex numbers	(pg. 298) 1-74
	3.5, Complex roots and fundamental theorem of algebra	(pg. 306) 1-60
	3.6, Rational functions	(pg. 321) 1-56
	4.1, Exponential function	(pg. 343) 1-37
3	4.2, Logarithmic Functions	(pg. 356) 1-62
	4.3, Laws of logarithm	(pg. 363) 1-56
	4.4, Exponential and logarithmic equations	(pg. 372) 1-53
	5.1, Unit Circle	(pg. 416) 1-42
	5.2, Trig functions of real numbers	(pg. 426) 1-75
4	5.3, Trigonometric graphs	(pg. 439) 1-39
	5.4, More trig graphs	(pg. 451) 1-33
	6.1, Angle measures	(pg. 480) 1-47
	6.2, Trig of right angle	(pg. 489) 1-35
3	6.3, Trig functions of angles	(pg. 501) 1-54
	6.4, The law of sines	(pg. 510) 1-25
	6.5, The law of cosines	(pg. 518) 1-30
	7.1, Trig identities	(pg. 540) 1-83
	7.2, Addition and subtraction formulas	(pg. 548) 1-45
3	7.3, Double angle, half angle	(pg. 557) 1-74
	7.4, Inverse trig functions	(pg. 567) 1-46
	7.5, Trig equations	(pg. 579) 1-58, 67-70
2	8.1, Systems of equations	(pg. 628) 1-29
	8.7, Determinants & Cramer's rule	(pg. 697) 29-41