

MATH 51A OUTLINE

BEGINNING ALGEBRA - First Half

TEXT: Beginning Algebra, 10th Edition, Lial/Hornsby/McGinnis

Approved: JUNE 2007

Effective: FALL 2007

MATERIAL TO BE COVERED	SECTIONS FROM TEXT	TIME LINE
Exponents, order of operations, properties and operations of real numbers, simplifying expressions.	1.2 - 1.8	2.5 Hours
Properties of equality, solving linear equations, ratio and proportion, applications of linear equations including formulas. Properties of linear inequalities.	2.1 - 2.8	10 Hours
NOTE: Chapters 3 & 4 will be covered in Math 51B		
Integer exponents and operations with polynomials; scientific notation.	5.1 - 5.7	8.5 Hours
Factoring, including: greatest common factor, trinomials, differences of squares, sum and differences of cubes. Solving quadratic equations by factoring, applications of quadratics.	6.1 - 6.6 <i>Plus summary.</i>	7.5 Hours
Operations with rational expressions, complex rational expressions, solving rational equations, applications of rational expressions including direct and inverse variation.	7.1 - 7.8 <i>Plus summary.</i>	11 Hours

***** One hour - 1 hours of face time. **** This outline allows for 3 hours of exams.

16 Week Term: 1 week = 2.8333 hours (face time) 6 Week Term: 1 week = 7.5 Hours (face time)

NOTES:

Most chapters contain in-chapter summary exercises. These special exercise sets provide students with "mixed" review problems necessary to master topics. Instructors should assign summary sets as they appear in each chapter.

**** Instructor Note: Students should be informed that upon the completion of Math 51B, they will have a comprehensive final covering Chapters 1 through 9.**

**** See reverse side for important Department Policy****

Submitted by: Birca, Khoddam, Kim, Loyd, McDonald, Nitta, Takashima, Tamayo, Sun, Wakefield