

FEMALE MATH

Course Syllabus: Winter 2006

Topics	Description	Class Date
Theory*		
Numbers and digits	<ul style="list-style-type: none"> • Introduction to the Real Number System 	01/10
Place Value↓	<ul style="list-style-type: none"> • writing real numbers (using standard, expanded & exponential notations) • evaluating (comparing & ordering) real numbers • identifying significant digits within real numbers • rounding real numbers • multiples of 10 (introduction to scientific notation) 	01/10 01/12
The Number Line↓	<ul style="list-style-type: none"> • introduction to concepts and notation • graphing equalities and inequalities 	01/17
Operations with Real Numbers		
Addition	<ul style="list-style-type: none"> • simple & complex • interpreting and solving word problems/ estimation 	01/17
Subtraction↓	<ul style="list-style-type: none"> • simple & complex 	01/17
Multiplication & Division	<ul style="list-style-type: none"> • simple & complex • times tables (factors & multiples) • perfect squares & square roots • exponents & radicals • order of operations (PEMDAS) 	01/19 01/19
Fractions & Mixed Numbers↓	<ul style="list-style-type: none"> • forms (proper & improper) & mixed numbers • converting (proper to mixed numbers & <i>vice versa</i>) • operations (with same denominators) • operations (with different denominators) 	01/24 & 01/26
Applications‡		
Using a Calculator	<ul style="list-style-type: none"> • converting fractions to decimals and <i>vice versa</i> 	01/31
Percents	<ul style="list-style-type: none"> • basic and complex 	01/31
Measurement ↓	<ul style="list-style-type: none"> • ratios and proportions 1 (gears, unit pricing, etc.) • dimensional analysis & conversion factors: <ul style="list-style-type: none"> °English to English °metric to metric °English to metric and <i>vice versa</i> • using a ruler (English & metric) • using a protractor & compass • ratios and proportions 2 (scale drawings, maps) 	01/31 02/02 02/07
Geometry: Euclidean & Cartesian↓	<ul style="list-style-type: none"> • points, lines, angles, planes & solids • formulæ (perimeter, circumference, area, volume, distance, midpoint, slope, etc) 	02/09 & 02/14
Introduction to Algebra↓	<ul style="list-style-type: none"> • manipulating algebraic equations • interpreting and solving algebraic word problems 	02/16
Review↓	<ul style="list-style-type: none"> • preparation for Final • test-taking strategies 	02/21
Final‡		02/23
*no calculators permitted		
‡calculators required		
↓reducing math-anxiety exercises		

FREE classes for women will be held at Nontraditional Employment for Women (NEW), 243 West 20th Street, (between 7th & 8th Avenues in Manhattan) on Tuesday and Thursday, from 5:00 – 9:00 p.m.