Female Math Course Syllabus			
WEEK#	TOPIC	DESCRIPTION	CLASS
WEEK II	Orientation and Pre-Course Testing	Tests of Adult Basic Education (TABE) 9A & Female Math Pre-Course Skills Assessment	CLINGS
1	Introduction to Spatial Reasoning	symmetry and transformations	10/06/15*
	Digits and Numbers	• introduction to the Real Number System	. 10/07/15*
	The Number Line	<ul><li>introduction to concepts and notation</li><li>graphing (equalities and inequalities)</li></ul>	
	Place Value 4	<ul> <li>writing Real Numbers (using standard, expanded, exponential notations)</li> <li>evaluating (comparing and ordering) Real Numbers</li> <li>rounding Real Numbers</li> <li>identifying significant digits in Real Numbers</li> <li>converting decimals to fractions</li> <li>multiplying and dividing by power-of-ten numbers (whole number &amp; decimal)</li> </ul>	10/08/15*
2	Operations with Rational Numbers (Whole Numbers & Decimals, Integers)	operations with signed numbers     exponents, scientific notation, logarithms     order of operations (PEMDAS)     number series and sequences	10/13/15*
	Fractions and Mixed Numbers	introductory exercises     adding, subtraction, multiplying, and dividing     converting fractions to decimals	10/14/15*
	Using a Calculator	• converting decimals to percents and vice versa	10/15/15‡
	Percents •	basic and complex problems	
	Ratios and Proportions	• maps, medications, unit pricing, gears & pulleys	
3	Set Theory Counting Methods	<ul> <li>describing sets; set notation; Venn diagrams; application of sets</li> <li>factorials, permutations, and combinations</li> </ul>	10/20/15*
	Probability and Statistics	outcomes; measures of central tendency and dispersion	10/21/15‡
	Data Analysis and Measurement	• tables and charts (creating & interpreting)	10/22/15‡
4	Zatu many 515 and Measurement	•"reading"/using a ruler & architect's scale	10/27/15*
	Dimensional Analysis	• conversions: English - English; metric - metric	10/28/15*
		<ul> <li>conversions: English - metric &amp; metric - English</li> <li>points, lines, angles, planes, and solids; using a protractor &amp; compass</li> </ul>	10/29/15*
5	Euclidean Geometry	• points, lines, angles, planes, and solids; using a protractor & compass • formulae (perimeter, circumference, area, volume, etc.)	11/03/15* 11/04/15*
	Cartesian Geometry	coordinate points, formulae, and equations of lines	11/04/15
6	Introduction to Algebra	expressions (rational and radical)	11/05/15
		polynomials (including special factors and products)	11/10/15
		• equations: linear & quadratic (solving and graphing)	11/11/15
			11/17/15
7		• algebraic word problems	11/18/15
		algebraic word problems	11/19/15
8		matrices and determinants	11/24/15
	Introduction to Trigonometry	introductory concepts	12/01/15
		TABE 10A & Female Math Post-Course Skills Assessment	12/02/15
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