Intermediate Algebra Topic Schedule 2019

Week		Comments
	## 2 Linear Equations ### 2.1: Solving Linear Equations. - Check solutions of equations. - Solve linear equations in standard form (ax+b=0) and - nonstandard form (ax+b=kx+c). ### 2.2: Linear Equations & Problem Solving. - Write algebraic equations and solve them. - Solve percent problems. - Translate word problem to Math. expression or equation. - Use ratios- compare unit prices - Solve proportions.	How can they continue in Intermediate Algebra and they do not "how to solve the simple equation" Proportion is also another way to solve an equation.
	### 3 Graphs and Functions 3.1: The Rectangular Coordinate System 3.2: Graphs of Equations 3.3: Slope and Graphs of Linear Equations	How to graph the system of equations? if they do not know how to do a simple graph.
1	4 **Systems of Equation**s and Inequalities 4.1 Solving Systems of Linear Equations by Graphing. **Break-Even point** 4.2 Solving Systems of Linear Equations by Substitution **with the application (Real Life Problems).** 4.3 Solving Systems of Linear Equations by Elimination. **with the application (Real Life Problems).**	
2	A.4 Solving Systems of Linear Equations Using Matrices (Introduction)	
3	A.5 **Determinants and Cramer's Rule** **4.4 Matrices: Basic Operations XLeave 2 Business Calculus** **4.5 Inverse of a Square Matrix - XLeave 2 Business Calculus**	Business Calculus
	5 Polynomials and Factoring - 5.1: **Integer Exponents and Scientific Notation** - 5.2: **Adding and Subtracting Polynomials** - 5.3: **Multiplying Polynomials** - 5.4: **Factoring by Grouping and Special Forms**	

	• 5.5: **Factoring Trinomials** • 5.6: **Solving Polynomial Equations by Factoring**	
4	**6.1 Greatest Common Factor and Factoring by Grouping** **6.2 Factoring Trinomials of the Form x^2+bx+c** **6.3 Factoring Trinomials: Trial-and-Error Method**	
5	**6.4 Factoring Trinomials: AC-Method** **6.5 Difference of Squares and Perfect Square Trinomials** **6.6 Sum and Difference Cubes**	
6	**6.7 Solving Equations Using the Zero Product Rule** 8.1 Introduction to Relation 8.2 Introduction to Function	
7	8.3 Graphs of Functions 8.4 Algebra of Function and Composition	
8	10.7 Solving Radicals Equations 10.8 Complex numbers 11.4 Graphs of Quadratic Functions	
9	11.5 Vertex of Parabola: Application and Modeling 12.1 Inverse Function 12.2 Exponential Functions	
10	12.3 Logarithmic Functions 12.4 Properties of Logarithms	
11	Functions Used in Economics (Extend the treatment of these functions to make it a week long unit)	Business Calc (pg 6)
12	3.1 Simple Interest 3.2 Compound & Continuous Compound Interest	Finite Math
13	7.1 Logic (This section is not currently included in the Finite Math Syllabus, but it is very useful nonetheless)	Finite Math
14	7.2 Sets 7.3 Basic Counting Principles	Finite Math
15	Review	