Course Alignment to the Competencies for Elementary K-6 Teachers: Math																							
Course	Counting Cardinality	Cardinancy Operations and Algebraic Thinking		Numbers and Operations in Base Ten		Numbers and Operations Fractions		Rations and Proportional Relationships		The Number Systems		Expressions and Equations		Measurement and Data		Geometry		Statistics and Probability					
	1.1	2.1	2.2	2.3	3.1	3.2	3.3	4.1	4.2	5.1	5.2	6.1	6.2	6.3	7.1	7.2	8.1	8.2	8.3	9.1	9.2	10.1	10.2
MATH 1003																							
Survey of		Х								Х	Х											Х	Х
Mathematics																							
MATH 1043				x											х	х		x	х				
College Algebra				^											^	^		^	^				
MAED 2243																							
Fundamentals of																				х	х		
Geometric																				^	^		
Concepts																							
MAED 3552	х		х		х	х	х	х	х	х	х	х	х	х									
Number Systems	^		^		^	^	^	^	^	^	^	^	^	^									
PHYS 1003																							
Elements of																	Х					Х	Х
Physics																							

In addition to the Arkansas Teacher Standards, the Elementary Education K-6 teacher will demonstrate knowledge and/or competencies in the following mathematics areas:

 1. Counting and Cardinality ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: CC.K Praxis II (5033): IA1 2. Operations and Algebraic Thinking ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: OA.1-5 Praxis II (5033): IA3, IA4, IB2 	 1.1 Understands pre-numeration concepts (e.g., informal counting, meaning of number, patterns) 2.1 Understands four basic operations (i.e., addition, subtractions, multiplication, and division) and their properties (e.g., commutative, associative, distributive, order of operations) 2.2 Understands basic concepts of number theory (e.g., factors, multiples, place value, odd/even, prime/composite) 2.3 Understands how to solve problems, including word problems, using multiple strategies (e.g., modeling, estimation, algorithms and assess the reasonableness of results
 3. Numbers and Operations in Base Ten ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: NBT.K-5 Praxis II (5033): IA2, IA3, IA4 4. Numbers and Operations – Fractions ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: NF.3-5 Praxis II (5033): IA2, IA3 	 3.1 Understands basic number systems (e.g., whole numbers, integers, rational numbers, fractions, decimals) 3.2 Understands four basic operations (i.e., addition, subtractions, multiplication, and division) and their properties (e.g., commutative, associative, distributive, order of operations) 3.3 Understands basic concepts of number theory (e.g., factors, multiples, place value, odd/even, prime/composite) 4.1 Understands basic number systems (e.g., whole numbers, integers, rational numbers, fractions, decimals) 4.2 Understands four basic operations (i.e., addition, subtractions, multiplication, and division) and their properties (e.g., commutative, associative, distributive, order of operations)
 5. Rations and Proportional Relationships ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: RP.6 Praxis II (5033): IA2, IB1 6. The Number Systems ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: NS.6 Praxis II (5033): IA2, IA3, IA4 	 5.1 Understands basic number systems (e.g., whole numbers, integers, rational numbers, fractions, decimals) 5.2 Understands how to solve problems, including word problems, using multiple strategies (e.g., modeling, estimation, algorithms) and assess the reasonableness of results 6.1 Understands basic number systems (e.g., whole numbers, integers, rational numbers, fractions, decimals) 6.2 Understands four basic operations (i.e., addition, subtractions, multiplication, and division) and their properties (e.g., commutative, associative, distributive, order of operations) 6.3 Understands basic concepts of number theory (e.g., factors, multiples, place value, odd/even, prime/composite)

ACEI = Association for Childhood Education International ATS (InTASC) = Arkansas Teaching Standards (Interstate Teacher Assessment and Support Consortium) CCSS-MATH = Common Core State Standards – Mathematics

Praxis II (5033) = Praxis II Elementary Education: Mathematics Subtest

7. Expressions and Equations ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: EE.6 Praxis II (5033): IB3, IB7	7.1 Understands basic algebraic methods and representations (e.g., variables, expressions, ordered pairs, tables, graphs)7.2 Understands equations and inequalities
 8. Measurement and Data ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: MD.K-5 Praxis II (5033): IIB1, IIB2, IIB4 9. Geometry ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: G.K-6 Praxis II (5033): IIA1, IIA2 	 8.1 Understands nonstandard, customary, and metric units of measurement (e.g., length, time, temperature, volume, mass) 8.2 Understands visual displays of quantitative data (e.g., picture graphs, bar graphs, pie charts, line plots) 8.3 Understands fundamental counting techniques (e.g., permutations, combinations, tree diagrams) 9.1 Understands properties and attributes of two- or three-dimensional figures and their hierarchy of classification 9.2 Understands transformations (i.e., rotations, reflections, and translations), geometric models, and nets
10. Statistics and Probability ACEI: 2.3 ATS (InTASC): Standard 4 CCSS-MATH: SP.6 Praxis II (5033): IIB3, IIB5	10.1 Understands basic descriptive statistics (i.e., mean, median, mode, and range)10.2 Understands simple probability and intuitive concepts of chance (e.g., flipping a coin, spinning a spinner, rolling a number cube