Cord Algebra II, Mathematics in Context, 1st edition
correlation to Washoe County Algebra II Content Standards

	Cord Algebra II Lesson(s)
Content Standard 1.0: Numbers, Number Sense, and Computation: Place Value; Fractions; Comparing & Ordering; Counting; **Facts; Estimating & Estimation Strategies; Computation; Solving Problems & Number Theory**	
WA 1.12.5.1 Know and use perfect cubes to 125, plus 1,000, in mathematical and practical situations.	5.2
WA 1.12.7.3 Evaluate radical expressions and exponential expressions with rational exponents.	5.1, 5.2, 5.3
WA 1.12.7.4 Without technology, know the procedure to find: solutions to matrix multiplication, the inverse of a 2x2 matrix, and the determinant of a 2x2 matrix.	3.1, 3.2, 3.3, 3.4
WA 1.12.7.5 With technology, use and find solutions to matrix multiplication, the inverse and the determinant of a square matrix.	3.1, 3.2, 3.3, 3.4
WA 1.12.7.6 Perform operations on complex numbers and graph complex numbers.	5.5
WA 1.12.8.2 Classify numbers into the various number families in the complex number system.	5.5
Content Standard 2.0: Numbers, Patterns, Functions, and Algebra: **Patterns; Variables & Unknowns; Number Sentences, Expressions & Polynomials; Relations & Functions; Linear Equations & Inequalities; Algebraic Representations & Applications**	
WA 2.12.3.4 Know the procedure and use long and synthetic division with polynomials. Use the factor and remainder theorems to evaluate and verify real solutions.	9.3, 9.4
WA 2.12.3.5 Solve polynomial equations for real solutions given one root or factor.	9.5
WA 2.12.3.6 Simplify rational and radical expressions.	5.1, 5.2, 5.3
WA 2.12.3.7 Simplify expressions using properties of exponential or logarithmic functions.	8.1, 8.2, 8.3, 8.4
WA 2.12.4.3 Know the parent functions and graphs of: linear, quadratic, absolute value, square root, exponential, logarithmic, logistic functions.	4.4, 4.5, 6.1, 8.1, 8.2 (no logistic functions)
WA 2.12.4.4 Determine the domain and range from the graph of cubic, rational, radical, exponential, logarithmic and logistic, functions using interval, set, and inequality notation.	4.1, 4.4, 4.5, 6.1, 8.1, 8.2 (no logistic functions)

Correlation completed 09/19/08 by MATHQueue, Inc.

WA 2.12.4.5 Write and describe functions using translations and transformations of the following parent functions: quadratic, absolute value, and cubic.	4.4, 4.5
WA 2.12.4.6 Know, use and combine functions using mathematical operations and composition of functions in function notation form.	4.2
WA 2.12.4.7 Find the inverse of a function and verify if the inverse is a function using compositions.	4.3
WA 2.12.5.2 Translate among verbal descriptions, graphic and algebraic representations to solve systems of linear equations and inequalities. (include elimination, substitution, graphing and matrices when solving equations)	2.1, 2.2, 2.3, 2.4
WA 2.12.5.3 Solve systems of equations with three unknowns algebraically and graph the solution.	2.5
WA 2.12.5.4 Solve radical equations or inequalities; solve rational equations or inequalities.	5.4, 10.4
WA 2.12.6.2 Solve quadratic equations by factoring, completing the square and with the quadratic formula to find real solutions.	6.2, 6.3, 6.4, 6.5, 6.6
WA 2.12.6.3 Find the maximum or minimum using quadratics in practical situations.	6.1, 6.Aps
WA 2.12.6.4 Solve mathematical equations involving logarithmic and exponential functions.	8.5, 8.Aps
Content Standard 3.0: Measurement: **Comparison, Estimation & Conversion; Precision in Measurements; Formulas; Money; Ratios and Proportions**; Time	
WA 3.12.3.3 Use exponential growth and decay formulas to solve mathematical and practical problems.	8.1, 8.Aps
WA 3.12.4.5 Solve practical financial problems involving compounded interest, effective yield and continuous compounding formulas.	8.6, 8.Aps
WA 3.12.5.6 Solve mathematical and practical problems involving direct, inverse and joint variations.	10.6
Content Standard 4.0: Spatial Relationships, Geometry, and Logic: **Two-Dimensional Shapes; Congruence, Similarity, & Transformations; coordinate Geometry & Lines of Symmetry; Three-Dimensional figures; Algebraic Connections; Lines, Angels & their Properties; Triangles; Constructions; Logic.**	
WA 4.12.1.4 Write equations and translations of circles and parabola in vertex and standard forms.	7.3, 7.5

WA 4.12.3.4 Graph rational functions, including vertical and horizontal asymptotes and holes.	10.1
WA 4.12.3.5 Graph a pair of linear parametric equations and write the function represented by a pair of parametric equations.	Not covered
WA 4.12.6.3 Write an equation for the perpendicular line (or parallel line) that goes through a point not on the line.	1.4
WA 4.12.9.4 Create a Venn diagram to illustrate intersections and unions of events in practical situations.	Not covered (Venn diagram of real number set on p. 4)
Content Standard 5.0 Data Analysis: **Data Collection & Organization; Central Tendency & Data Distribution; Interpretation of Data; Permutations & Combinations; Experimental & Theoretical Probability; Statistical Inferences**	
WA 5.12.1.3 Organize data in a matrix, and interpret the result when using matrix multiplication.	3.1, 3.2
WA 5.12.1.4 Organize data and solve problems using Venn diagrams.	Not covered (Venn diagram of real number set on p. 4)
WA 5.12.3.4 Find the probability of an event given that the data is normally distributed and the mean and standard deviation are known.	Not covered
WA 5.12.5.4 Find conditional probabilities and find binomial probabilities.	14.1, 14.2
WA 5.12.5.5 Use addition and multiplication rules to find probabilities.	14.1, 14.2