

COURSE: Intermediate Algebra

Month	Key Idea	Chapter	Concepts	Skills	Assessments
Begin Sept. - End Sept	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation	1 & Class Notes	Review of Real Numbers Exponents	Subsets of Real Numbers Properties of Real Numbers Set Notation Variable Expressions Verbal Expressions & Variable Expressions	Class work Homework Group work Quizzes Tests
End Sept - Begin Oct	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation	5 & Class Notes	Exponents	Exponential Expressions Multiplying Dividing Zero Exponent Negative Exponent Simplifying Expressions	Class work Homework Group work Quizzes Tests
Begin Oct. - Begin Nov	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Patterns/Functions	2 & Class Notes	Polynomials	Function Notation Addition/Subtraction of Polynomials Multiplication of Polynomials Division of Polynomials Factoring Polynomials	Class work Homework Group work Quizzes Tests

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Begin Nov. - End Nov	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Patterns/Functions	2 & Class Notes	Applications of Solving Equations 1 st degree Inequalities	Solving Equations in one Variable Integer Problems Consecutive Integer Problems Uniform Motion Problems Solving inequalities in one Variable Solving Compound Inequalities	Class work Homework Group work Quizzes Tests
End Nov - Mid Dec	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Patterns/Functions	2 & 8 & Class Notes	Quadratic Equations Quadratic Inequalities Absolute Value Equations Absolute Value Inequalities	Solving Quadratic Equations by Factoring Solving Quadratic Equations using the Quadratic Formula Discriminant Product and Sum of the Roots Solving Quadratic Inequalities Solving Absolute Value Equations Solving Absolute Value Inequalities	Class work Homework Group work Quizzes Tests

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Mid Dec. - End Jan	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Measurement Patterns/Functions	3, 4 & 12 & Class Notes	Using the Graphing Calculator Graphs of Linear Equations Graphs of Quadratic Equations Solving Systems of Equations Graphically	Graphing a Linear Function Graphing Parabolas Graphing Circles Graphing Ellipse Graphing Hyperbola Graphing a Quadratic-Linear System Graphing a System of Quadratics	Class work Homework Group work Quizzes Tests
Begin Feb - Begin March	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Patterns/Functions	4 & Class Notes	Systems of Linear Equations Systems of Linear-Quadratic Eq. Systems of Quadratic Eq.	Solving Algebraically Solving by Determinants Solving Using Cramer's Rule Applications	Class work Homework Group work Quizzes Tests

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Begin March - Mid April	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation	7 & 10	Radicals Rational Exponents Logarithms	Perfect Roots Simplifying Radicals Addition/Subtraction of Radicals Multiplication/Division of Radicals Rationalizing Denominators Solving Radical Equations Simplifying Expressions Containing Rational Exponents Writing Exponential Eq. in Log Form Writing Log Eq. in Exponential Form Evaluating a Log Expression Solving a Log Equation	Class work Homework Group work Quizzes Tests
Mid April - Mid May	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Measurement Patterns/Functions	8	Imaginary Numbers Complex Numbers	Simplifying Imaginary Numbers Operations on Imaginary Numbers Simplifying Complex Numbers Operations on Complex Numbers Rationalizing Denominator	Class work Homework Group work Quizzes Tests

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End May - Begin June	Mathematical Reasoning Number and Numeration Operations Modeling/Multiple Representation Measurement Patterns/Functions		Review for Final Examination		Class work Homework Final Exam Reviews Group work Quizzes