success

NOVANET® COURSEWARE
COURSE CATALOG

NovaNET® COURSEWARE

LEARN (insert noun) THROUGH EDUCATION

Heather Wilson Student, Colorado Springs School

YOU NEVER HAVE TO COMPROMISE ON

CORE CURRICULUM

NovaNET® Courseware provides quality courses that have helped millions of students in grades 6-adult prepare for graduation, college and career. This complete, online learning system delivers proven, rigorous core middle school and high school curriculum developed from research-based instructional strategies and aligned to the Common Core State Standards that allows students to learn at their own pace.

PATHWAYS

NovaNET Courseware delivers courses through three pathways to help you address a wide range of needs.

P PRESCRIPTIVE: These courses require students to begin each full-length course with a pre-test to check for mastery of each objective in that module, then move through the lessons in a prescribed format based on pre-test results. Prescriptive courses are ideal for credit recovery, dropout prevention, summer school, accelerated remediation and alternative education implementations.

S SEQUENTIAL: These courses guide students through all elements of the lessons using best practices in teaching and require students to master content before moving on. Sequential courses are ideal for first-time instruction, when time in course is important and to meet NCAA rules and regulations.

F FLEX: These courses allow students to self-direct learning and progress through the material openly, in any order. Flex courses are ideal for self-paced remediation, blended learning support and supplemental curriculum for teachers who want to mix the online lessons into their courses.

AT-A-GLANCE

MIDDLE SCHOOL

FOCUS AREA	UNITS/COURSES	PATHWAY
Language Arts Page 4	English: Basic Reading	P S F
	English: Basic Writing	P S F
	English: Grammar	P S F
	English: Literature	P S F
	English: School and Job Skills	P S F
	English: Writing	P S F
Mathematics Pages 5-6	Basic Math 1	P S F
	Basic Math 2	P S F
	Basic Math 3	P S F
	Basic Math 4	P S F
	Intermediate Math 1	P S F
	Intermediate Math 2	P S F
	Intermediate Math 3	P S F
	Intermediate Math 4	P S F
	Math Grade 6	P S F
	Math Grade 7	P S F
	Pre-Algebra Grade 8	P S F
	Pre-Algebra 1	P S F
	Pre-Algebra 2	P S F
	Pre-Algebra 3	P S F
	Pre-Algebra 4	P S F
Science Page 6–7	Earth Science	P S F
	Earth Science: Astronomy	P S F
	Earth Science: Earth's Land and Water	P S F
	Earth Science: Inside Earth	P S F
	Earth Science: Weather and Climate	P S F
	Life Science	P S F
	Life Science: Cells and Heredity	P S F
	Life Science: Environmental Science	P S F
	Life Science: From Bacteria to Plants	P S F
	Life Science: Human Biology and Health	P S F

Future College Graduate

COURSE CATALOG

MIDDLE SCHOOL

FOCUS AREA	UNITS/COURSES	PATHWAY
Social Studies Pages 8–9	Physical Science	P S F
	Physical Science: Chemical Building Blocks	P S F
	Physical Science: Chemical Interactions	P S F
	Physical Science: Electricity and Magnetism	P S F
	Physical Science: Motion, Forces and Energy	P S F
	Physical Science: Sound and Light	P S F
	Science and Technology	P S F
	American History	P S F
	American History: The Beginning	P S F
	American History: Forming a New Nation	P S F
	American History: The New Republic	P S F
	American History: The Nation Expands and Changes	P S F
	American History: Civil War and Reunion	P S F
	American History: An Age of Industry	P S F
	American History: A New Role in the World	P S F
	American History: Depression and War	P S F
	American History: Moving Toward the Future	P S F
	Civics: Foundations of Leadership	P S F
	World Studies	P S F
	World Studies: Africa	P S F
	World Studies: Asia and the Pacific	P S F
	World Studies: Foundations of Geography	P S F

"I knew NovaNET was helping our graduation rate based on the number of course completions we had. What I didn't know was how much learning was taking place and did that learning transfer to other standardized tests. I tracked data for an entire year and was amazed at the results. It proved to me the rigor was truly there."

Matt Zentell, house principal
Burleson High School

HIGH SCHOOL

FOCUS AREA	COURSE	PATHWAYS
Language Arts Page 10	English I A&B*	P S F
	English II A&B*	P S F
	English III A&B*	P S F
	English IV A&B*	P S F
Mathematics Pages 11–12	Algebra I A&B*	P S F
	Algebra 2 A&B*	P S F
	Geometry A&B*	P S F
	Integrated Math 1 A&B*	P S F
	Integrated Math 2 A&B*	P S F
	Integrated Math 3 A&B*	P S F
	Integrated Math 4 A&B	P S F
	Pre-Algebra A&B*	P S F
	Precalculus A&B*	P S F
	Statistics	P S F
	Trigonometry	P S F
Science Page 13	Biology A&B	P S F
	Chemistry A&B	P S F
	Earth Science A&B	P S F
	Environmental Science	P S F
	Physical Science - Chemistry	P S F
	Physical Science - Physics	P S F
	Physics A&B	P S F
Social Studies Page 14	Economics	P S F
	Geography A&B	P S F
	Government	P S F
	US History A&B	P S F
	World History A&B	P S F

* Common Core edition available

HIGH SCHOOL

FOCUS AREA	COURSE	PATHWAYS
Electives Page 15	Business Communication	
	Health	
	Introduction to Business	
	Introduction to Psychology	
	Introduction to Sociology	
	Personal Finance Video Library	
	Public Speaking	
	Spanish I	
Projects Library Page 15	Algebra I	English IV
	Algebra 2	Geometry
	Economics	Pre-Algebra
	English I	Precalculus
	English II	US History
	English III	World History

FOCUS AREA	COURSE	PATHWAYS
Assessment Page 16	Basic Achievement Skills Inventory™ (BASI)	
	Online Readiness Assessment	
National Test Prep Page 16	ACT Study Courses	
	GED Study Courses	
	SAT Study Courses	
State High-stakes Test Prep Page 16	Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Florida, Georgia, Idaho, Illinois, Indiana	Louisiana, Maine, Massachusetts, Michigan, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio
		Oklahoma, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Vermont, Virginia, Washington, Wisconsin

MIDDLE SCHOOL

LANGUAGE ARTS

ENGLISH: BASIC READING In this unit, students make predictions and inferences; find main ideas and draw conclusions; distinguish fact from opinion; and analyze characters in literature. Students are given a rich variety of multicultural and contemporary literature with which to practice these reading comprehension skills.

P S F

ENGLISH: BASIC WRITING This unit teaches students components of the writing process, including generating topics, drafting, revising, presenting and publishing, and peer reviews; analyzing main characters, purpose, and audience; organization and structure; building readers' interest; and using various styles and techniques. Students learn to write short stories, research papers, responses to literature, and persuasive, comparison-and-contrast, cause-and-effect and how-to essays.

P S F

ENGLISH: GRAMMAR This unit reviews punctuation and capitalization, addresses the parts of speech—nouns, pronouns, verbs, adjectives, adverbs, prepositions, conjunctions, and interjections—and builds communication skills by explaining clauses and phrases; word agreements; and modifier usage. Students learn how to combine and vary sentences, conjugate verbs, use active or passive voice, and revise fragments, run-ons, and misplaced modifiers.

P S F

ENGLISH: LITERATURE This unit presents the components and reading of different genres of literature—novels, short stories, poetry, drama and nonfiction. Students explore literary elements, expository writing techniques, literary devices, drama elements, literary selections, and listen to audio reading of passages and watch videos of reader's theater drama presentations.

P S F

ENGLISH: SCHOOL AND JOB SKILLS This unit develops effective evaluating and communicating skills, including speaking, listening, viewing media, interpreting graphs and maps, and using multimedia and visual aids. Students learn how to improve their vocabulary and spelling through various practices, including analyzing word parts and origins, using spelling rules, and learning homophones.

P S F

ENGLISH: WRITING This unit addresses the writing process including prewriting, drafting, and revision strategies; organizing paragraphs; supporting and sequencing information; editing; proofreading; publishing; and presenting. Student learn how to write autobiographies; short stories; descriptions; comparison-and-contrast, cause-and-effect, and how-to essays; and research reports.

P S F

BASIC MATH 1 This unit covers whole numbers, order of operations, decimals, data analysis, graphs, variables, algebraic expressions, one-step equations, and the Distributive Property.

P S F

BASIC MATH 2 This unit covers divisibility, exponents prime numbers, factorization, GCF, fractions, mixed numbers, LCM, working with fractions and mixed numbers —adding, subtracting, multiplying, and dividing—working with time, solving fraction equations by multiplying, and the customary system.

P S F

BASIC MATH 3 This unit covers ratios, unit rates, proportions, percents, circle graphs, angles, triangles, polygons, congruent and similar figures, transformations, the metric system, perimeters and areas, circles, prisms, and cylinders.

P S F

BASIC MATH 4 This unit covers tree diagrams and the Counting Principle, probability, making predictions, independent events, integers, solving equations with integers, graphing functions, solving two step equations, inequalities, square roots and rational numbers, and the Pythagorean Theorem.

P S F

INTERMEDIATE MATH 1 This unit covers operations with decimals, integers, exponents, factors, and fractions. Students develop their skills in addition, subtraction, multiplication and division of decimals, integers and fractions through real-world examples that guide students through the problem-solving process.

P S F

INTERMEDIATE MATH 2 This unit covers solving equations and inequalities, and addresses ratios, rates, and proportions. Students learn how to compare, order, and convert between fractions, decimals, and percents, and solve percent real-world problems using equations and proportions.

P S F

INTERMEDIATE MATH 3 This unit covers classifying angles and triangles, quadrilaterals arithmetic and geometric sequences, and how to represent patterns using tables, rules and graphs. Students learn how to identify congruent figures, find missing measures, find areas of triangles, parallelograms, and trapezoids, find the circumference and area of circles, and find the surface area and volume of rectangular prisms and cylinders.

P S F

INTERMEDIATE MATH 4 This unit covers graphing points and lines, theoretical and experimental probability, probabilities of independent and dependent events, and permutations and combinations. Students investigate linear and nonlinear relationships, slope, transformations, and symmetry and learn ways of displaying data and identifying misleading graphs and statistics. Students apply the concepts and skills they learn in each lesson to solve real-world problems.

P S F

MATH GRADE 6 In the course, students develop their skills in addition, subtraction, multiplication and division of decimals, integers,and fractions. Students write and solve equations and inequalities. They also display data in tables and graphs, along with finding the measures of central tendency. Students solve problems involving area, surface area, and volume. The concepts of ratios and proportions are also presented.

P S F

MATH GRADE 7 The course covers operations with decimals, integers, exponents, factors, and fractions. It also addresses ratios, rates, and proportions. Students solve equations and inequalities, and they solve percent problems using equations and proportions. They also find the perimeters and areas of different geometric shapes and the surface areas of solids. Students investigate linear relationships, and they learn how to display and analyze data.

P S F

PRE-ALGEBRA GRADE 8 This course addresses concepts related to performing operations with integers and fractions, factoring, and simplifying expressions with exponents. The course shows how to solve multi-step equations and inequalities, and it presents concepts related to writing and solving proportions and percent problems. Students learn to recognize linear functions and their graphs, identify polygons and solids, solve for area and volume, and display data.

P S F

PRE-ALGEBRA 1 This unit addresses writing expressions, performing the order of operations, evaluating expressions, operations with integers and properties of numbers. Students learn how to solve equations and inequalities involving integers.

P S F

MATHEMATICS

PRE-ALGEBRA 2 This unit addresses solving equations involving decimals, using factors to simplify fractions, exponents and scientific notation. Students learn how to perform operations with fractions, and solve equations with fractions.

P S F

PRE-ALGEBRA 3 This unit addresses writing ratios, solving proportions, finding probabilities, linear functions and covers equations involving percents. Students learn how to solve multi-step equations that contain integers, fractions, and decimals.

P S F

PRE-ALGEBRA 4 This unit begins with an introduction to basic geometry, including angles, lines, polygons, circles, and translations. It also covers finding area, surface area, and volume and addresses square roots and the Pythagorean Theorem. It concludes with displaying data, counting outcomes, and finding probabilities.

P S F

SCIENCE

EARTH SCIENCE The Earth Science course begins with a study of the Earth's interior structure, forces, and types of rock. Earth's topography is covered next, including mountains and oceans and forces that form and change surface features over time. Next, students learn about the solar system, star formation, and current theories concerning the nature of the universe. The course is completed by a study of the Earth's atmosphere, including energy transfer, wind, weather, and climate.

P S F

EARTH SCIENCE: ASTRONOMY In this unit, students learn about space exploration and the results of the recent space missions. Next, focus shifts to the components of our solar system, the life cycle of stars, and the ways in which stars are arranged. Finally, students learn about the theories that explain the formation of the solar system and the greater universe, as well as what scientists predict will happen to the universe.

P S F

EARTH SCIENCE: EARTH'S LAND AND WATER In this unit, students engage in seven modules that focus on the general topography of Earth and the formation of Earth's features. Included are water and wind as agents of erosion and deposition, formations in the ocean, and the ocean as a valuable resource. Finally, the unit ends with instruction about how Earth, and the clues contained within it, can be used to understand the changes that occur over time.

P S F

EARTH SCIENCE: INSIDE EARTH In this unit, students learn about the major layers of Earth as well as the forces responsible for shaping Earth. Topics include volcanoes, earthquakes, and plate tectonics. In addition, students learn about the rock cycle and the different characteristics of each type of rock.

P S F

EARTH SCIENCE: WEATHER AND CLIMATE In this unit, students learn about the layers and characteristics of the atmosphere. They learn about the transfer of heat energy from the sun through the atmosphere and how the unequal distribution of heat creates winds. Students also learn about climate regions and the factors that influence climate. Finally, students study the changes in climate and the role humans play in this process.

P S F

SCIENCE

LIFE SCIENCE The Life Science course begins with a review of measurement skills and the scientific method. Then students learn to classify organisms based on taxonomy, domains, and kingdoms. Cell structure, function, and processes are covered next, along with DNA, heredity, and the theory of evolution. The systems of the human body are presented, followed by extensive coverage of biological ecosystems,habitats, organism populations, and environmental issues.

P S F

LIFE SCIENCE: CELLS AND HEREDITY This unit introduces students to concepts such as cell structure and function, cell processes and energy, heredity and probability, human genetic disorders, DNA replication, mitosis and meiosis, Darwin's theory of evolution, and the relationship between the fossil record and the Geological Time Scale.

P S F

LIFE SCIENCE: ENVIRONMENTAL SCIENCE In this unit, students are introduced to concepts such as the nature of habitats, organism populations and relationships, the movement of energy and chemical nutrients through ecosystems, major biomes, biodiversity and resource management, environmental pollutants, and energy resources.

P S F

LIFE SCIENCE: FROM BACTERIA TO PLANTS This unit introduces students to concepts such as the characteristics shared by all living things, the reasons for classifying organisms, evolution, taxonomy, domains and kingdoms, theories on the origin of life, viruses, bacteria, fungi, and plants.

P S F

LIFE SCIENCE: HUMAN BIOLOGY AND HEALTH In this unit, students learn about the structures and functions of the various systems of the human body, including the skeletal, muscular, integumentary, digestive, circulatory, lymphatic, respiratory, excretory, immune, nervous, endocrine, and reproductive systems. Emphasis is placed on the need for proper functioning and interaction among these systems to maintain homeostasis.

P S F

PHYSICAL SCIENCE The Physical Science course begins with an investigation of the elements of matter and their properties and states, followed by a study of chemical compounds, chemical bonds, and reactions. Next, students turn their attention to the topics of motion, forces, and energy, followed by an investigation of magnetism and electricity, including semiconductors and digital devices. The course concludes with a study of wave phenomena, including sound, light, and radio waves.

P S F

PHYSICAL SCIENCE: CHEMICAL BUILDING BLOCKS In this unit, students investigate matter and explore its properties and states. They learn how the elements of matter are organized in the periodic table and examine different types of materials, including metals, ceramics, and radioactive substances.

P S F

PHYSICAL SCIENCE: CHEMICAL INTERACTIONS In this unit, students explore the nature of atoms and elements. They learn how elements form compounds with chemical bonds and how compounds are changed during chemical reactions. They also learn about solutions, acids, and bases.

P S F

PHYSICAL SCIENCE: ELECTRICITY AND MAGNETISM In this unit, students investigate magnetism and electricity. They learn how magnetic fields are formed and how electric charges flow in circuits using either direct or alternating current. They also learn about electromagnetic devices such solenoids, motors, generators, and transformers. The unit concludes with a study of semiconductors and digital devices, including computers.

P S F

PHYSICAL SCIENCE: MOTION, FORCES AND ENERGY In this unit, students learn how to describe and measure motion. They explore the nature and types of force as they study Newton's three laws of motion and learn about simple machines. Students also examine different forms of energy, including thermal energy, and study energy transformation and conservation.

P S F

PHYSICAL SCIENCE: SOUND AND LIGHT In this unit, students investigate the properties and interactions of waves. First they explore the nature and properties of sound waves, including loudness, pitch, and speed. Next, students examine waves in the electromagnetic spectrum, including radio waves and visible light. They learn how colors are produced, and how images are formed through reflection and refraction. Various technologies are also presented, including ultrasound, lasers, fiber optics, and wireless communication.

P S F

SCIENCE AND TECHNOLOGY In this unit, students are introduced to concepts such as scientific inquiry, steps of the scientific method, careers available in science, and the roles of technology in scientific discovery and in everyday life. In addition, students will learn skills such as scientific units of measurement, common calculations and conversions, and forms of data presentation.

P S F

SOCIAL STUDIES

AMERICAN HISTORY The American History course presents a chronological history of the American experience from the earliest times to the present. It covers topics such as, colonial America, the American Revolution, and issues faced by the early republic. It also covers westward expansion, the Civil War, industrialization, WWI, the Great Depression, WWII, the Cold War, Civil Rights, and the Vietnam War. Finally, students learn about the challenges faced by the United States in the twenty-first century.

AMERICAN HISTORY: THE BEGINNINGS This unit teaches students about the roots of the American people, their cultural backgrounds, and their European heritage. Students learn how Europeans established their rule in America, the beginnings of the colonial system, and about life in colonial America, including interaction with Native Americans, trade, slavery, conflict, and the spread of new ideas.

AMERICAN HISTORY: FORMING A NEW NATION In this unit, students learn how discontent with British policies led to open rebellion and eventually the desire for independence among a majority of colonists. Students also learn about the Declaration of Independence, as well as the course and outcome of the American Revolution.

AMERICAN HISTORY: THE NEW REPUBLIC This unit teaches students about the challenges the United States faced as a new nation --first under the presidency of George Washington and then under John Adams. Students also learn about the era of Thomas Jefferson, the War of 1812, how the United States gained a new sense of confidence, and additional important issues faced by the early republic.

AMERICAN HISTORY: THE NATION EXPANDS AND CHANGES In this unit, students learn about the impact that the Industrial Revolution had on America and the differences in the development of the North and the South. Students also learn about reformations in society including the fight against slavery, efforts directed toward equal rights for women, and the development of American literature and arts. Finally, students learn about the need for westward expansion.

AMERICAN HISTORY: CIVIL WAR AND REUNION This unit teaches students about the growing tensions and conflicts between the North and South over slavery and how they ultimately lead to the Civil War. Students learn about the devastating effects of the Civil War on the United States, the difficulties that Americans faced when the Civil War ended, and the steps taken to restore the enormous losses.

AMERICAN HISTORY: AN AGE OF INDUSTRY In this unit, students learn about the various events that transformed western America, the rapid growth of industries and cities in America, and their positive and negative outcomes. Students also learn about the various reforms that took place in America, including political reforms and the granting of voting rights to women.

AMERICAN HISTORY: A NEW ROLE IN THE WORLD In this unit, students learn how the United States expanded into the Pacific region and became involved in Latin America, about American involvement in World War I, and how that helped the Allies achieve victory in the war. Students also learn how the United States adjusted to peacetime after World War I and the significance of the 1920s in American history.

AMERICAN HISTORY: DEPRESSION AND WAR This unit teaches students about the Great Depression and its effect on life in the United States. They also learn about Franklin Roosevelt's New Deal policies, the impact of those policies, the causes and effects of World War II, and the Cold War and how it reshaped international relations.

AMERICAN HISTORY: MOVING TOWARD THE FUTURE In this unit, students learn about the civil rights movement and its impact on the United States, the American involvement in the Vietnam War, how the war divided the nation, and how the end of Cold War created a new world of democracy and peace. Students also learn about the challenges faced by the United States in the twenty-first century.

MIDDLE SCHOOL

SOCIAL STUDIES

CIVICS: FOUNDATIONS OF CITIZENSHIP This unit teaches students about the American portrait, American society and its values, the need for a government, as well as the different forms of government and how they work. Students learn what it means to be a citizen, the rights, duties, and responsibilities of citizenship, and the different roles a citizen plays in society and government.

P S F

WORLD STUDIES The World Studies course provides a unique balance of history, geography, and culture; it expands students' understanding of each world region through a focus on its major countries. Additionally, students learn the foundations of geography. Regions covered include Africa, Asia and the Pacific, the United States and Canada, Europe and Russia, and Latin America. The history and geography of the ancient world and medieval times to present day are also included.

P S F

WORLD STUDIES: AFRICA As students explore this unit, they learn about the unique geography, rich history, and diverse cultures of Africa's four regions: North, West, East, and Central and Southern. Students also examine how the governments and economies in these regions have grown and changed over time. In addition, students learn about the successes Africa has experienced as well as the challenges facing Africa today.

P S F

WORLD STUDIES: ASIA AND THE PACIFIC As students move through this unit, they learn about the unique geography, rich history, and diverse cultures of Asia. Students also examine how the governments and economies in Asian nations have grown and changed over time. In addition, students learn about the economic successes that Asia has experienced as well as the challenges facing Asia today.

P S F

WORLD STUDIES: FOUNDATIONS OF GEOGRAPHY In this unit, students first learn about the concepts and foundations for studying geography, including such key tools as globes and maps. As students move through the unit, they learn about Earth's physical geography as well as Earth's human geography, which includes the study of populations, migrations, economic and political systems, and different cultures of the world. In addition, students learn about Earth's environment and how people affect the environment.

P S F

ENGLISH I A* This course addresses strategies for reading comprehension, recognition of text structure in exposition and narrative, and comprehension of different genres of text. The course also explains the steps for writing an essay and applying the five-step writing process. Finally, the course provides instruction on the following: how to give speeches; how to participate in group discussions; how to view informational text and fine art; and how to read and write business documents.

P S F

ENGLISH I B* This course addresses basic skills in grammar, punctuation, word usage, spelling, vocabulary, and research. In addition, this course explains how to punctuate and manipulate sentences to produce more effective writing. Further, students learn prefixes, roots, suffixes, word origins, and analogies to aid in vocabulary acquisition. Finally, students learn the basics about how to write research papers, including using the Internet for research.

P S F

ENGLISH II A* This course builds on the skills learned in previous English courses. Within the course, students develop skills in grammar, punctuation, word usage, spelling, and vocabulary. This course introduces students to communications skills, such as giving speeches, using visual aids, and workplace communications. Finally, students learn how to write and revise research papers, including how to evaluate and document sources in MLA.

P S F

ENGLISH II B* This course focuses on strategies for reading comprehension; recognition of literary elements, devices, and techniques; and comprehension of different genres of text. The course also explains the writing process, from pre-writing to publishing. Students learn about composing personal narratives and literary responses; rhetoric; and different types of literature. Finally, the course provides instruction on perspective and argument, including persuasion, modes of reasoning, and distinguishing between fact and opinion.

P S F

ENGLISH III A* This course builds on the skills learned in previous English courses. Within the course, students continue to develop skills in grammar, punctuation, word usage, spelling, and vocabulary. Students also continue to develop communications, academic, and workplace skills.

P S F

ENGLISH III B* This course teaches students about complex writing processes and types of writing, including autobiography, short stories, literary response, description, persuasion, exposition, and research. Students also learn about reading strategies, study skills, and modes of reasoning. In addition, students read works from different periods of American literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences.

P S F

ENGLISH IV A* This course builds on the skills learned in previous English courses. Within the course, students continue to develop skills in grammar, punctuation, word usage, spelling, and vocabulary. Students also continue to develop communications, academic, and workplace skills.

P S F

ENGLISH IV B* This course teaches students about complex writing processes and types of writing, including autobiography, short stories, literary response, description, persuasion, exposition, and research. Students also learn about reading strategies, study skills, and modes of reasoning. In addition, students read works from different periods of British literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences.

P S F

* Common Core edition available

ALGEBRA 1 A* This course covers such key concepts as variables, function patterns, and graphs. Students learn operations with rational numbers and properties of rational numbers. Students solve linear equations and inequalities. The course includes data analysis and probability. Finally, students study slope and graphing linear functions.

P S F

ALGEBRA 1 B* This course covers solving systems of linear equations and inequalities, exponents, polynomials, and factoring. Students study quadratic equations and functions, radical expressions and equations, and rational expressions and functions. Finally, students study counting methods.

P S F

ALGEBRA 2 A* This course builds on the skills learned in previous algebra courses. Within the course, students solve equations, inequalities, and systems. Students also learn about different functions including linear, quadratic, absolute value, and polynomial. Students solve problems using matrices, inverse matrices, matrix operations, and determinants. Additionally, they are introduced to the imaginary number i and find complex solutions to equations.

P S F

ALGEBRA 2 B* This course teaches students how to solve equations that contain radical expressions, rational exponents, and rational expressions. Additionally, students are introduced to exponential and logarithmic functions. They also explore conic sections. Finally, students study probability and statistics, sequences, and series.

P S F

GEOMETRY A* This course addresses basic skills in geometry including reasoning, developing proofs, identifying geometric figures, and constructing figures. Within the course, students explore the relationship between parallel and perpendicular lines. Students also learn about the relationships within a triangle and apply these to the study of quadrilaterals. Additionally, they use the properties of proportions and ratios to study similarity.

P S F

GEOMETRY B* This course teaches students about the properties of right triangles and trigonometric ratios, transformations of plane figures, and the parts of a circle and their properties. Additionally, the students will develop and apply formulas for area, surface area, and volume of two- and three-dimensional figures.

P S F

* Common Core edition available

INTEGRATED MATH 1 A* This course teaches students how to simplify expressions and solve linear equations and introduces basic geometric terms and logic, reasoning, and proof. Students then learn about linear equations, this time in a graphical sense, and finish the course by looking at parallel and perpendicular lines, first from an algebraic perspective, followed by proving associated theorems using geometry.

P S F

INTEGRATED MATH 1 B* This course begins by teaching students how to solve proportions and use square roots. Then students will move into exploring exponents, simplifying polynomials, and factoring and solving quadratic equations. They will then apply these skills to geometry topics such as quadrilaterals, polygons, area, and volume.

P S F

INTEGRATED MATH 2 A* This course begins by teaching students how to solve linear equations and inequalities. Then they will be introduced to functions and families of functions. Students will then continue learning about linear equations, this time in a graphical sense. They will apply their knowledge of equations and inequalities to solve systems. They will finish the course by proving theorems on triangles and learning about triangle congruence.

P S F

INTEGRATED MATH 2 B* This course continues to teach students about geometrical relationships in triangles and plane figures. Then they will apply their knowledge of ratios and proportions to similar polygons. Students will learn about special right triangles and basic trigonometry. They will move onto radicals, polynomials, and rational equations. Finally, they will study probability and statistics.

P S F

INTEGRATED MATH 3 A* This course begins by reviewing graphing in the coordinate plane. Students will then apply both graphical and algebraic approaches to solving systems of equations. They will explore constructions, isometric transformations, symmetry, and dilations. Students will finish the course by solving quadratic equations in a variety of ways.

P S F

INTEGRATED MATH 3 B* This course teaches students about a variety of nonlinear relationships including polynomial, radical, exponential, logarithmic, and rational equations. Then they will learn about circles and conic sections. Students will finish the course by studying arithmetic and geometric sequences and series.

P S F

INTEGRATED MATH 4 A In the unit "Data Analysis," students will learn about analyzing data, standard deviation, and normal distributions. In "Sequences and Series," they will learn about arithmetic and geometric sequences and their series. In "Rational Functions," students will learn about rational and inverse functions. In "Introduction to Trigonometry," they will learn about radians, degrees, and the unit circle.

P S F

INTEGRATED MATH 4 B In "Graphs and Inverses of Trigonometric Functions," students will learn about trigonometric functions and inverse trigonometric functions. In "Trigonometric Identities," they will learn about trigonometric identities and sum and difference formulas. In "Extended Trigonometry," students will learn about applications of trigonometry, polar coordinates, and vectors. In "Investigations of Functions, they will learn about functions, polynomial functions, exponential functions, and logarithmic functions.

P S F

PRE-ALGEBRA A* This course addresses concepts related to writing algebraic expressions, performing operations with integers and fractions, factoring, and simplifying expressions with exponents. The course shows how to solve one-step equations and inequalities that contain integers, fractions, and decimals. The Distributive Property along with properties of addition and multiplication are presented. Measures of central tendency are included as part of the course as well.

P S F

PRE-ALGEBRA B* This course addresses concepts related to writing and solving proportions and percent problems, recognizing linear functions and their graphs, identifying polygons and solids, displaying data, and finding probabilities. The course shows how to solve multi-step equations that contain integers, fractions, and decimals. Equations and formulas that reflect real-world situations are presented. Computing area, surface area, and volume are also covered.

P S F

PRECALCULUS A* This course presents students with a formal study of functions, to include polynomial functions, exponential and logarithmic functions, and rational functions. Discrete topics include an analysis of sequences and series, counting principles, the binomial theorem, and probability. Students will use technology to employ multiple approaches to problem solving and data modeling.

P S F

PRECALCULUS B* This course includes topics on trigonometry, parametric curves, the polar coordinate system, and complex numbers in polar form. Students will solve problems using the Laws of Sines and Cosines and will also analyze vectors and conics, study systems of equations and matrices, and solve systems using matrices. Limits and continuity are introduced.

P S F

STATISTICS This course addresses descriptive statistics topics including frequency distributions, histograms, graphs, and measures of center and spread. Probability topics include addition rules, multiplication rules, conditional probabilities, counting rules, binomial distribution, and normal distribution. Inferential statistics topics include estimations for population measures, hypothesis testing, correlation, goodness-of-fit, and statistical process control.

P S F

TRIGONOMETRY This course addresses analyzing functions, transformations, and inverse functions. Students will also learn about radians, the unit circle, right-triangle trigonometry, trigonometric functions, inverse trigonometric functions, trigonometric identities, and trigonometric equations. Additional topics include vectors, conic sections, parametric curves, and the polar coordinate system.

P S F

"In a classroom you have kids at all ranges of the bell curve and their needs are substantially different. That's what I love about NovaNET. It does a great job of handling students in the middle of the bell curve, but it allows the teachers to leverage their time to really help students on both sides of the bell curve."

Ken Crowell, State Executive Director,
Guided Online Academic Learning Academy

* Common Core edition available

BIOLOGY A This course addresses key concepts and processes from chemistry, cells, cellular respiration, photosynthesis, genetics, and DNA. The course presents the scientific method and foundational chemistry facts that will assist students in the study of biology. Cell structure and cellular processes are explored through animations and videos.

P S F

BIOLOGY B This course addresses key concepts and processes of evolution, classification, ecology, and human anatomy. Students learn about the processes of evolution and how these relate to the classification of living things. Defining structures of bacteria, protists, fungi, plants, and animals are explored. The course concludes with an overview of human body systems.

P S F

CHEMISTRY A This course addresses key concepts and processes from states of matter, atomic theory, organization of the periodic table, types of chemical bonds and reactions, the naming and formulas of chemicals, chemical reactions, and stoichiometry. The course also explains the field of chemistry in relation to the scientific method. Concepts are explored through lessons and lab videos.

P S F

CHEMISTRY B This course addresses key concepts and processes from properties of solids, liquids, and gases, state changes, solutions, flow of energy, enthalpy, heat, entropy and free energy, rates of reactions, equilibrium, acid-base theories, oxidation and reduction, electromagnetic cells, functional groups, polymerization, biochemicals, and nuclear chemistry. The course explores concepts through lessons and lab videos.

P S F

EARTH SCIENCE A This course addresses major concepts such as the materials which compose Earth, the rock cycle and types of rocks, Earth's resources, formation and movement of soil, glaciers, deserts, and alluvial landscapes, earthquakes, volcanoes, plate tectonics, mountain building, and geologic time. Additionally, students learn about science as a process. Laboratory concepts appear in videos and key scientists are called out through portraits and biographies.

P S F

EARTH SCIENCE B This course covers such concepts as the ocean floor, sea floor sediments, waves, tides, and shoreline processes, characteristics of the atmosphere, precipitation, air pressure and wind, storms, climate, early astronomy, Earth-Moon-Sun interactions, and Solar System. Additionally, biographical information on key scientists and careers in Earth Science is presented.

P S F

ENVIRONMENTAL SCIENCE This course presents relationships between organisms and how these relationships relate to the functioning of ecosystems. Students learn the key concepts and processes of nutrient cycling, biomes, pollution, energy resources, and habitat destruction. The course also covers ways to promote biodiversity and create a sustainable future.

P S F

PHYSICAL SCIENCE - CHEMISTRY This course addresses key concepts and processes from properties and states of matter, atomic structure, organization of the periodic table, types of chemical bonds and reactions, solutions, carbon chemistry, and nuclear chemistry. The course presents the scientific method and foundational chemistry facts that will assist students in advanced chemistry courses. Concepts are explored through animations and videos.

P S F

PHYSICAL SCIENCE - PHYSICS This course addresses key concepts and processes from force and motion, work, power, machines, energy, optics, electricity, and magnetism. The course presents a foundation of physics that will assist students in advanced physics courses. Concepts are explored through animations and videos.

P S F

PHYSICS A This course contains lessons that address the key concepts of mechanics, wave behavior, and thermodynamics. Students learn about and apply Newton's laws of motion. The course also includes lessons on work, energy, momentum, and sound. Thermal properties of matter and thermodynamic systems are presented as well. An understanding of algebra and trigonometry is required.

P S F

PHYSICS B This course contains lessons on electricity, magnetism, and optics. Students are also presented with topics found in modern physics. The course includes lessons that address the interactions among electric charges, properties of electric and magnetic fields and forces, and the characteristics of electromagnetic waves. Some of the basic concepts of quantum physics are presented as well. An understanding of algebra and trigonometry is required.

P S F

SOCIAL STUDIES

ECONOMICS This course begins with an introduction of economics, including a review of the American free enterprise system. Students will then learn about markets, business and labor, and banking and finance in the microeconomics section. Next, they will learn about measuring economic performance, the government's role in the economy, and international trade and development in the macroeconomics section.

P S F

GEOGRAPHY A This course addresses key concepts of physical and human geography. The course presents information about the United States, Canada, Latin America, and Western Europe.

P S F

GEOGRAPHY B This course addresses key concepts of physical and human geography. The course presents information about Central Europe, Northern Eurasia, Central and Southwest Asia, Africa, South Asia, East Asia, the Pacific world, and Antarctica.

P S F

GOVERNMENT This course covers the foundations of American government, political behavior, and the three branches of the federal government.

P S F

U.S. HISTORY A This course begins with the American Revolution and ends with the Progressive Era. The lessons address key concepts, important historical figures, and significant events between 1776 and 1917. Students will gain an understanding of the political, economic, and social structures of the early years of the United States. They will also learn how and why the United States evolved during its first century of existence.

P S F

U.S. HISTORY B This course begins with the Age of Imperialism and ends with globalization and the twenty-first century. Students will learn about America's participation in the two world wars in the first half of the twentieth century. In addition, students will learn that the United States emerged as a global superpower while experiencing significant social and economic change in the second half of the century. They will also learn about the boom in technology and globalization as well as continued conflict abroad at the turn of the twenty-first century.

P S F

WORLD HISTORY A This course contains lessons addressing historical periods from Prehistory to Colonization. The objectives of the lessons are directly aligned to current standards. Each multimedia lesson is designed to teach the major concepts for each historical period through text, visual aids, activities and assessments.

P S F

WORLD HISTORY B This course contains lessons addressing historical periods from the Scientific Revolution through Globalization in the 21st century. The objectives of the lessons are directly aligned to current state standards. Each multimedia lesson is designed to teach the major concepts for each historical period through text, visual aids, activities and assessments.

P S F

"NovaNET and my class environment makes me want to do better. If it wasn't for this program, I wouldn't be graduating or be the first one in my family to go to college."

Jose S., Woodside High School

ELECTIVES

BUSINESS COMMUNICATION This course provides the foundations of all types of business communication including letters, memos, electronic communication, written reports, oral presentations, and interpersonal communication. The course also includes topics of resumes, application letters, interviewing tips, and employment follow-up documents.

HEALTH This course addresses topics in mental health, social health, nutrition, physical fitness, substance abuse, human development, and preventing disease. The course emphasizes the physical and emotional benefits of making healthful choices and discusses consequences of unhealthful behaviors. Critical thinking is encouraged through the use of open-ended questions, assessments, and videos that present real-life situations.

INTRODUCTION TO BUSINESS This course provides students with an overview of business in an increasingly global society serving as an introduction to business terminology, concepts, environments, systems, strategies, and current issues. Topics include an overview of the business environment, business ethics, entrepreneurship and global business, management, marketing, production, information systems, and financial elements of business.

INTRODUCTION TO PSYCHOLOGY This course introduces human behavior. It includes the study of the theories and concepts of psychology including the scope of psychology, biological foundations and the brain, sensation, perception, motivation, personality, learning/memory, emotion, states of consciousness, personality theories, cognition, life-span development, and applied psychology

INTRODUCTION TO SOCIOLOGY This course explores sociological processes that underlie everyday life. The course focuses on globalization, cultural diversity, critical thinking, new technology and the growing influence of mass media.

PERSONAL FINANCE VIDEO LIBRARY This series of video lessons contains material about personal finance topics such as creating a personal budget, the benefits of saving, different types and risks of investments, taxes, credit and debt, and much more. These video lessons can be used with any course.

PUBLIC SPEAKING This course provides the student with a basic understanding of public speaking and how to prepare and present a variety of speeches.

SPANISH I This course teaches students vocabulary and grammar in the context of their everyday lives relevant to home, school, recreation, and food. Students learn to express their likes and dislikes, how they feel, and how to ask others about their preferences or how they feel. They also learn facts about Spanish-speaking countries, and similarities and differences between their lives and their contemporaries in Spanish-speaking countries.

PROJECTS LIBRARY

MATH AND ENGLISH PROJECTS Meet the Common Core State Standards, International Association for the K-12 Online Learning (iNACOL) Standards and 21st Century Skills with high school project-based lessons.

MATH

ALGEBRA I
Data Detectives Project
Data Journalist Project
Future Formulas Project
Got Problems Project
Graph Art Project
Infographic Project
Loop Area Project
News Report Project
Plane Project
Wheel of Theodorus Project
Who Did It? Project

ALGEBRA 2
Cancer Project
Expressions Project
Identity Crisis Project
Mega Mansion Project
Postage Cost Project
Supply the Demand Project
Top Tablet Project
Treasure Project

GEOMETRY
Choices Project
Concert Promoter Project
Crop Circles Project
Drive Project
Meteor Project
Ratios Project
Similar Circles Project
Snacking in Space Project
Zoo Project

PRE-ALGEBRA GRADE 8
Call Me Project
Cookie Factory Project
Equations Project
Good Grades Project
Hole in One Project
Losing Lillie Project
Proportions Project
Pythagowhat?!? Project
Ramp it Up Project

PRECALCULUS
Curly the Cropduster Project
Good Game Project
Riddle Race Project
Sandy from Saturn Project

ENGLISH

ENGLISH I
Civil Rights March Project
Harriet Beecher Stowe Project
Nutrition Project
Persuasive Techniques Project
Pygamlion Project
The Frog Prince Project
Video Games Debate Project

ENGLISH II
Comparing Themes Project
Managing Stress Project
Pesticides and Food Project
Public Issues Project
Shackleton's Voyage Project
The Migrant Worker Project

ENGLISH III
Analyzing Court Cases Project
Mark Twain Project
Media Influence Project
The Wizard of Oz Project
This Autistic Life Project
Writing a Narrative Project

ENGLISH IV
Career Readiness Project
Exploring College Project
Literary Devices Project
Researching Epidemics Project
Shakespeare Project
The Narrative Project

ASSESSMENT

BASIC ACHIEVEMENT SKILLS INVENTORY™ (BASI)
Developed by Achilles N. Bardos, PhD, co-author of the GAMA® (General Ability Measure for Adults) test, the BASI series comprises multi-level, norm-referenced achievement tests for children and adults that may be group- or self-administered.

The BASI Comprehensive and Survey versions were standardized on a sample of more than 4,000 students (grades 3–12 and college) matched to the 2000 U.S. Census demographic information. The Survey version also was normed on a sample of 2,000 adults (ages 18–80), matched to the 2000 U.S. Census demographic data. The samples were stratified by race and ethnicity, age, gender, geographical region, and socio-economic status.

The BASI is highly correlated to the leading individually and group-administered achievement and intelligence tests to provide a current, valid, and reliable assessment tool that helps present a complete evaluation of academic skills. These convenient tests yield standard scores, national percentile rankings, grade equivalency, age equivalency, and performance classification by learning objective—without requiring individual administration or lengthy testing.

THE BASI IS AN IDEAL ASSESSMENT FOR:

- Identifying academic strengths and weaknesses at a detailed level.
- Aiding the diagnosis of learning disabilities.
- Efficiently completing follow-up evaluations.
- Designing learning interventions.
- Measuring yearly or year-over-year progress.
- Comparing individual performance to the national average.
- Estimating Adequate Yearly Progress.

ONLINE READINESS ASSESSMENT The Online Readiness Assessment (ORA) is a four-part survey meant to assist students, their guardians, and teachers in evaluating non-academic areas that might need improvement in order for students to be successful in online or self-paced digital courses. The assessment covers students' capabilities in four different subtests- technical infrastructure, technical skills, personal situation, and personal traits/skills. These four assessments have 29 total survey questions that can easily be completed by most students in 15 minutes or less. Each question asks the student to rate themselves on statements that were found in research to be positively correlated to student success in online learning from "strongly agree" to "strongly disagree" on a five-point Likert-like scale.

TEST PREP

STATE AND HIGH-STAKES TEST PREPARATION Provide test prep curricula designed to address the learning standards for respective state end-of-course exams and high-stakes tests. Students will move through the curricula in a prescribed method, being exempted from objectives where they show mastery, saving time and narrowing review time to essential concepts.

NATIONAL ASSESSMENTS ACT® and SAT® Practice Tests and Study Courses. GED® Study Courses.

STATE HIGH-STAKES ASSESSMENTS

Alabama AHSGE
Arizona AIMS
Arkansas ACTAAP
California CAHSEE
Colorado CSAP
Connecticut CAPT
Florida FCAT & Algebra 1 EOC
Georgia EOCT
Idaho ISAT
Illinois PSAE
Indiana ECA
Louisiana GEE & EOC
Maine NECAP
Massachusetts MCAS
Michigan MME
Mississippi SATP
Missouri EOC
New Hampshire NECAP
New Jersey HSPA
New York Regents
North Carolina EOC
Ohio OGT
Oklahoma EOI
Pennsylvania PSSA
Rhode Island NECAP
South Carolina HSAP & EOC
Tennessee Gateway & EOC
Texas EOC & TAKS
Vermont NECAP
Virginia EOC
Washington HSPE
Wisconsin WCKE

STATE-SPECIFIC

CUSTOM STATE-SPECIFIC COURSES Pearson designs courses to meet specific state curricular needs. The offerings vary by state and are not available for all states.

CONTACT YOUR LOCAL PEARSON PROFESSIONAL TO LEARN MORE ABOUT CUSTOM COURSES FOR YOUR STATE.

OUR REACH
SPANS THE GLOBE

Pearson, the global leader in education and education technology, reaches students of all ages with effective, personalized learning and engages teachers with dedicated professional development.

Pearson's commitment to improve education is demonstrated in our investment in innovate print and digital education materials for pre-K through adult learning as well as student information systems, learning management systems, teacher development, career certification programs, and testing and assessment products that set the standard for the industry.

character

FulFillment

LEARN
(insert noun)
THROUGH
EDUCATION

Visit NovaNETCourseware.com for a complimentary hands-on demonstration of NovaNET Courseware or call 888 977 7900 to learn more.

581N053