The e2020 Virtual Classroom and Virtual Tutor Suites provide over 126 semester equivalent core and elective courses for grades 6-12. Each course offers comprehensive standards-aligned content that incorporates Universal Design for Learning (UDL) principles with Quality Standards for Online Courses. This lesson structure promotes academic success in an online learning environment.

Language Arts

Language Arts 6 – LA1088**
Highlighting basic storytelling structures, LA1088 focuses on a variety of literary, expository, and informational texts, which encourage students' understanding of plot, setting, characterization, and theme. Informative lectures and targeted lesson plans will engage students in a variety of literary genres. Students will develop the skills to succeed on standardized tests through analyzing and evaluating numerous texts.

Language Arts 7 – LA1089**
Offering targeted lessons that teach the conventions of literature, LA1089 introduces real-life topics connected to literary text in a highly relatable and interesting format. Grammar and writing lessons develop students' writing skills through persuasive essays, expressive writing, expository essays, and research papers. Introducing a variety of literary elements, as well as a comprehensive overview of learned skills, this course offers lessons that will lead students on an exploration of visual literacy, effective listening skills, censorship, propaganda, and ethical reasoning.

Language Arts 8 – LA1090**
Focused on diverse and contemporary texts, LA1090 encourages students to develop strong skills in literary analysis with texts that are both informative and relevant. Interactive lessons on grammar and writing enhance student control of English conventions. Lessons on writing model the writing process for students and provide opportunities for practice through persuasive essays, personal narratives, informative essays, literary analysis, compare-contrast essay, and a research paper. Intended for middle-school students, this course offers targeted lessons that will engage students in an exploration of poetry and prose, literary criticism, world literature, American folk tales, drama, and informational texts.

In preparation for high school, this course also incorporates communication lessons that explore topics related to public speaking, effective listening, interviews, and media analysis.

Language Arts 9 – ELA2064**
Dedicated to creating effective and adaptable readers and writers, ELA2064 provides rigorous training in the foundations of English Language Arts skills and strategies. Using the core foundation, the course expands on and applies traditional concepts to modern, 21st-century demands. Offering practical lessons in techniques such as visualizing, making inferences and predictions and recognizing, and organizational patterns in online and offline texts, this course delivers hands-on training in applying the writing process, evaluating essays, and using MLA style and documentation. Over the course of two semesters, interactive grammar lessons will strengthen students' grasp of language and improve writing skills.

Language Arts 10 – ELA2065**
Focused on application, ELA2065 reinforces literary analysis and 21st-century skills with superb literature pieces, application e-resources, and educational interactives. Keeping recent ninth-grade graduates in mind, the course uses the foundations of reading, writing, and analysis skills to take students to the level of mastery they will need to succeed in future English Language Arts courses and the workplace. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, 21st-century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWritingPal software, students will also compose descriptive, persuasive, expository, literary analyses, research, narrative, and compare-contrast essays. Classic literature pieces, including the full texts of Antigone, The Tragedy of Julius Caesar, and Gulliver’s Travels, train students in conquering complex texts. Catering not only to educators but also to students, the course texts are engaging and include many selections from world literature.
Language Arts 11 – LA1093**

Focusing on American literature, LA1093 takes students on a journey spanning from slave narratives to contemporary works. In an engaging course structure, students will explore classic American literature in chronological order and within the context of literary eras. Setting American literature in the context of history offers students insight into how American literature developed and the unique characteristics that set it apart from other literary traditions. Over two semesters, students will read and analyze canonical works from authors such as Frederick Douglass, Edgar Allan Poe, Emily Dickinson, Walt Whitman, Nathaniel Hawthorne, Kate Chopin, F. Scott Fitzgerald, and Langston Hughes. In addition to the literature, the course also integrates communication, grammar, and writing lessons throughout to improve students’ ability to discuss the readings in a scholarly setting.

Language Arts 12 – LA1094**

Covering an interesting and expansive time period, LA1094 offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the Modern Period. With interactive introductions and historical contexts, this two-semester course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

Introduction to Communications and Speech – LA1097*

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, LA1097 offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches in the course.

Literacy and Comprehension I – LA1095* and Literacy and Comprehension II – LA1096*

Offering high-interest topics to motivate striving readers who are reading two to three levels below grade level, these complementary courses use a thematic and contemporary approach to expose students to effective instructional principles using diverse content-area and real-world texts. Presented as two one-semester reading intervention courses, LA1095 and LA1096 both offer an engaging, technology-based interface that will inspire and challenge high school and middle school students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses will inspire students to take control of their learning.

IDEA Writing – ELA3004*

Motivating students in grades 9–12 to become more articulate and effective writers, ELA3004 offers hands-on experience writing personal reflections, definition essays, research essays, persuasive essays, informative pieces and literary analysis essays. Offering targeted lessons on reputable research, effective communication, solid grammar and compelling style, this course utilizes the Six Traits of Effective Writing as an overarching framework. Students enrolled in this course will develop the skills necessary to evaluate one’s own writing and apply writing and researching strategies. In addition, students will get further practice applying the grammatical rules of Standard American English in formal writing.

Classic Novel Pack**

Offering in-depth studies into twelve novels and two authors, the Classic Novel Pack gives students the opportunity to fully explore a large work of fiction or to be introduced to a celebrated author. Each minicourse guides students through the work with lectures, web activities, journals, and homework/practice.

Novel Studies

- 1984
- A Midsummer Night’s Dream
- Call of the Wild
- Dr. Jekyll and Mr. Hyde
- Heart of Darkness
- Jane Eyre
- Mrs. Dalloway
- Portrait of the Artist
- Robinson Crusoe
- The House of Seven Gables
- The Red Badge of Courage
- The Three Musketeers

Author Studies

- Jorge Luis Borges
- Flannery O’Connor
6th Grade Mathematics – MA1098**
Designed to be integrated into the regular classroom or used as a stand-alone course, MA1098 introduces whole numbers, patterns, variables, and integers in an engaging and practical format. Lessons encourage the development of middle-school problem-solving skills. Over the course of two semesters, students will gain conceptual understanding of basic ideas and will be able to adapt their skills to more complex and abstract mathematics, including algebra, statistics, and geometry.

7th Grade Mathematics – MA1099**
Presenting lessons that engage students with interactive resources and stimulating lectures, MA1099 is a two-semester course that guides students through mathematical ideas and techniques while encouraging the development of problem-solving skills. Building on students’ knowledge of number theory, proportional reasoning, beginning algebraic concepts, two and three-dimensional figures, and geometry topics, this middle-school course challenges students to apply learned skills to more advanced lessons.

Pre-Algebra – MA1100**
Supporting students’ needs for engaging and interactive instruction, MA1100 is a course that encourages students to apply previously learned skills to more advanced problems in an effort to gain mastery of algebraic concepts. This course, intended for high school students, covers familiar topics including statistical data, ratios, proportions and percents, spatial thinking, sequences and patterns, and polynomials and functions—in a more comprehensive manner that challenges students in preparation for more complex subjects.

Algebra I – MA2003**
Challenging students’ mastery of learned algebraic skills, MA2003 provides in-depth coverage of writing, solving, and graphing a variety of equations and inequalities, as well as linear systems. Interactive activities provide students with opportunities to explore and discover algebraic principles on their own, and will encourage the application of learned skills to real world problems. Students will use the properties of real numbers to explore relevant, project-based learning activities that will provide a deeper understanding of the subject matter.

Geometry – MA2004**
Offering a hands-on approach to instruction, MA2004 is an interactive course designed to introduce the basics of geometry through engaging lectures and informative lesson plans. Students will be challenged to apply previously learned knowledge to higher-level ideas such as reasoning and proof, geometric relationships, and logic. This informative course covers fundamentals of shapes, surface area and volume of shapes, transformations, as well as strategies that include writing, analyzing, and using proofs. High school students will gain valuable, tangential knowledge of more complex concepts such as trigonometry.

Algebra II – MA1103**
Providing further insight into advanced algebraic concepts, this course serves as an extension of Algebra I. MA1103 develops students’ ability to manipulate and use matrices in various formats to determine data relationships and delve into function types such as polynomial, logarithmic, quadratic, exponential, and rational and periodic. Offered in an instructive and highly interesting format, high school level students will have the skills needed for state standardized tests and national exit exams upon completion of the course.

Pre-Calculus – MA1104**
Exploring the relationship between advanced algebra topics and trigonometry, MA1104 is an informative introduction to calculus that will challenge students to discover and comprehend the nature of graphs, nonlinear systems, and polynomial and rational functions. Encouraging logarithmic knowledge and application, this course for high school students covers many interesting and advanced subject areas in a thoughtful and supportive format, providing students a deeper understanding of topics including limits, continuity, derivatives, and the Fundamental Theorem of Calculus.

Mathematical Models with Applications – MA4072**
Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of MA4072 is to use mathematics as a tool to model real-world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics including growth, smart money, saving, and installment loan models. Providing timely and highly useful content, this two-semester course is a must-have for any high-school student. Prior mathematical knowledge will be expanded and new knowledge and techniques will be developed through real-world application of useful mathematical concepts.
**Financial Mathematics – MA2007**

Connecting practical mathematical concepts to personal and business settings, MA2007 offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial mathematics. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of mathematics skill sets, including percents, proportions, probability, data analysis, linear systems, and exponential functions.

**Life Science – SC1112**

Examining a broad spectrum of the biological sciences, SC1112 is for middle-school students that will build on basic principles of scientific inquiry and translate those skills to more complex overarching biological themes. The course includes units that will help students understand the definition, forms, and classifications of living organisms and learn to analyze the diversity of each unique group of living organisms. Other units will introduce students to the structures and functions of cells, cell theory, and cell reproduction. These larger themes will then be applied to other topics such as genetics, Darwinian Theory, and human biology and health. An introduction of ecology draws all of these concepts together to examine the interrelationships that help to maintain life on earth.

**Earth Science – SC1113**

Students enrolled in this dynamic course will explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly more prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing earth. Intended for middle-school students, SC1113 will provide a solid foundation for understanding the physical characteristics that make the planet Earth unique and will examine how these characteristics differ among the planets of our solar system.

**Physical Science – SC1114**

Encompassing the branch of science that studies non-living systems, SC1114 is an exciting course that inspires students to explore key concepts and theories, which explain and model a particular aspect of the behavior of nature. Students enrolled in this two-semester course will examine the forces that govern the chemical building blocks of our physical world and the composition of matter. Additionally, students will explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course also covers the dynamic properties of electricity and magnetism and the effects these phenomena exhibit on the planet. A cumulative study of how each of these concepts elicits reactions across the solar system rounds out this dynamic course.

**Biology – SC1115**

A compelling two-semester course, SC1115 engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a year-long course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, heredity and reproduction, the evolution of life, classification and kingdoms, human body systems, and ecology.

**Chemistry – SC1116**

A fascinating look into the composition, structure, and reactions of matter, SC1116 encourages high school students to ask questions about things that occur in nature and determine the underlying chemical compositions that cause these reactions. Students will engage in lessons covering atomic structures, the periodic table, and chemical bonding that will unlock the mysteries of the elements that make up our planet. Compelling course content will challenge students and will inspire further inquiry in more advanced levels of chemistry.

**Physics – SC1117**

Combining scientific inquiry with advanced mathematics, SC1117 will challenge students to understand and explain how energy, matter, and motion are all related. Engaging lessons introduce theories and experiments and encourage students to develop the knowledge and understanding necessary to support conclusions with numerical results. Inspiring students to relate knowledge to real-world applications, the course connects basic principles to more complex ideas in many fascinating areas: thermal energy, vibrations and waves, light and refraction, sound, electricity, and magnetism.
Environmental Science – SC2028**

Environmental Science is a captivating and rapidly expanding field, and SC2028 offers compelling lessons that cover many different aspects of the field: ecology, the biosphere, land, forests, and soil; water, energy, and resources, and societies and policy. Presented in an engaging format, high school students will connect scientific theory and concepts to current, real-world dilemmas through unique activities and material, providing opportunities for mastery in each of the segments throughout two semesters.

Middle School World History – SS1105**

Providing students with an opportunity to learn the diverse history that has shaped our world, SS1105 delves into the evolution of civilization from the rise of ancient empires through the 21st century. Students enrolled in this exciting and informative course will investigate the development of medieval societies, the effects of the Renaissance and Reformation, and the progress made during different periods of revolution, industrialization, urbanization, and reform. Students will analyze contributions of political conflicts and social issues to the continuing development and interdependence among nations in our modern world.

Middle School US History – SS1106**

Offering an interactive and comprehensive overview of American history, this course will engage and inspire students to learn about the rich and diverse history of America’s native peoples, early European colonization and settlement in America, and the creation of a new nation through the American Revolution. Examining the major changes brought about by the nation’s reconstruction, industrialization, urbanization, and progressive reforms, middle school students enrolled in this course will closely examine these events and consider the implications each had on the expansion of global influence through modern day. Over the course of two semesters, interesting course content will encourage students to think carefully about the challenges and opportunities facing the United States in the 21st century.

Middle School Civics, Government, and Economics– SS2049**

Exploring the structure of the United States government on a national, state, and local level, SS2049 will challenge students to learn and understand fundamental concepts and philosophies that led to the creation of the U.S. Constitution. Students enrolled in this course will analyze the political process, political parties, and influences that affect them both. Engaging interactive content introduces economic concepts and encourages students to explore government and economics on a global scale. By instilling a thorough understanding of government and economics, SS2049 hopes to inspire students to investigate what it means to be an American citizen.

Middle School World Cultures and Geography– SS2041**

Designed to introduce students to the study of geography, SS2041 helps learners master important concepts in physical and human geography. Comprehensive and organized by region, this year-long course helps students understand the Earth’s physical and human diversity. Students will analyze population and settlement patterns and evaluate the ways that human activities modify the physical environment. While studying humans around the world, students will compare development, standards of living, systems of government, and economic factors around the world. In addition, students will gain a rich understanding of global cultures and the historical factors that have shaped the world around them. All units in the course are parallel and include studies in physical and human geography, ancient cultures, regional studies, and modern issues.

World History – SS1108**

Beginning with topics from prehistory and culminating in the events of the 21st century, SS1108 provides interactive course content that will challenge high school students to learn about the political, economic, and social aspects of world history. This highly engaging, course encourages students to explore the major revolutions and social movements that have influenced different nations and eventually spread throughout the world. During this course, students will be exposed to a variety of pressing issues that have garnered opportunities for both conflict and cooperation in the modern world. (Prerequisite: Middle School World History – SS1105)

US History – SS1109**

Delving into the crucial political, social, economic, and cultural events that have shaped and enriched the history of the United States, SS1109 traces the experiences and effects of important historical and political figures from the early colonial era to the 21st century. Students will explore historical events, such as the Civil War, America’s westward expansion, the Great Depression, World War I, World War II, and the Cold War, and determine how each event affected the nation.
**Government – SS1110**

Providing students with the opportunity to learn about the historical events, philosophers, and topical issues that helped create the democratic foundations of this nation, SS1110 will introduce students to the founding fathers and expose them to the ideas that shaped the nation. Students will identify important political leaders and trace the development and organization of federal, state, and local government. In addition, students will explain the political process and analyze the United States’ role as a global, political, and economic participant. The course specifically targets philosophies and foundations of the United States Government, the organization of the branches of U.S. government, government on a state and local level, and civil liberties and laws. Full of timely and interesting content, the course will inspire students to be citizens that are more informed and equip them to understand the ways the United States compares economically and politically on a global scale.

**Economics – SS1111**

Presenting timely and engaging content, SS111 provides students with an understanding of the principles of economics. Interactive lessons allow students to apply the key microeconomic concepts of supply and demand as well as the role of prices as they become familiar with how markets work. This course targets important aspects of the world economy, including international trade and global economic challenges, and encourages students to apply the economic way of thinking to a variety of situations relevant to their everyday lives.

**Human Geography – SS2045**

Examining current global issues that impact our world today, SS2045 takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. This course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. Offering interactive content that will increase students' understanding of the development of modern civilization and human systems, from the agricultural revolution to the technological revolution, this course encourages students to analyze economic trends as well as compare global markets and urban environments.

**English Language and Composition – ELA5179**

Designed to provide a foundation for academic reading and writing, students in this advanced course will discover the ways that writer’s purpose, audience expectations, subjects, writing styles and genres contribute to writing effectiveness. Through the study of visual rhetoric, reading primary and secondary sources, synthesizing secondary material in compositions, and correctly citing sources using MLA format, students will learn critical college-level skills. Structured around the reading and writing of student essays, ELA5179 teaches students to move beyond the English and composition basics to master academic and professional reading and writing skills.

**English Literature and Composition – ELA5148**

Covering a variety of literature readings, literature analysis, and review of the author's purpose, students enrolled in this in-depth course will deepen their understanding of English literature and composition. Through the close reading of selected texts, students will closely explore structure, style and themes, rhetorical strategies, diction, figurative language, imagery, selection of detail, vocabulary and semantics and syntax. Offering the workload and intellectual challenges of an undergraduate English Literature/Humanities course, ELA5148 prepares students for post-secondary success.

**Environmental Science – SC5181**

An engaging option for students who have completed Chemistry and Biology, this two-semester course will provide advanced students with skills needed to understand interrelationships within the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these issues. Encompassing a wide variety of topics ranging from human population dynamics and energy flow to resources and environmental law, this rigorous, college-level course uses virtual laboratory and field-based activities and experiments to reinforce scientific and sociological principles, concepts, and methodologies associated with the academic study of our environment.

**Human Geography – SS5182**

Designed to meet or exceed the experience of a college course, AP Human Geography examines the geographic processes and analyzes the spatial patterns evident in today's world. Students enrolled in this comprehensive course will explore the patterns and processes that have shaped human interaction, use and alteration of the Earth’s surface while employing spatial concepts and landscape analysis to examine social organization and its environmental consequences. Covering a variety of topics including the nature of geography, culture, political organization of space, industrialization and urban land use, SS5182 introduces students to the methods and tools geographers use in their science and practice while helping them prepare for post-secondary achievement in future social science courses.

**Psychology – EL5180**

Providing a detailed overview of current psychological research methods and theories, students in this course will explore therapies and examine normal human
reactions, such as how people learn and think, the process of human development, human aggression, and self-reflection. With a focus on psychological concepts including brain and sense functions, students will discover how to gauge human reactions, gather information, and form meaningful syntheses while investigating concepts such as study skills and information retention.

**General Electives**

**Psychology – EL2084**
Offering an overview to the field of psychology, this two-semester course will introduce high school students to the study of psychology. EL2084 will challenge students to master fundamental concepts in research, theory, and human behavior and will expose them to the facts, concepts, and principles associated with the major fields within psychology. Students will analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological perspective, the psychosocial perspective, and the cognitive perspective. From a psychological point of view, students will investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field.

**Sociology – EL1120**
Providing insight into the human dynamics of our diverse society, EL1120 is an engaging course that delves into the fundamental concepts of sociology. This interactive course covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior both historically and in modern times.

**Career Planning and Development – EL4222**
Introducing upperlevel high school students to the working world, EL4222 will provide knowledge and insight necessary to compete in the challenging job market of today. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one-semester course includes lessons in which students will create self-assessment profiles, cover letters, and a résumé that can be used in their educational or career portfolio.

**Spanish I – EL959**
Introducing students to the Spanish language through individualized lesson plans, EL959 offers an engaging overview of core grammatical structures and the vocabulary necessary for elementary communication. Students will also be introduced to the traditions and customs of Spanish-speaking people across the world.

**Spanish II – EL960**
This course offers students interactive lesson plans that encourage open communication to enable students to utilize the Spanish they have acquired. High frequency, thematic, and contextualized vocabulary lessons aid in fluency and retention, and practice helps students achieve mastery of the concepts. Real-life conversation activities are presented throughout this course, alongside Cultural readings in both text and audio format so that students are exposed to the Hispanic culture from around the world. (Prerequisite: Spanish I - EL959)

**Introduction to Art – EL1086**
Covering art appreciation and the beginning of art history, EL1086 encourages students to gain understanding and appreciation of art in their everyday lives. Presented in an engaging format, this course provides an extensive overview of many introductory themes: defining art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course will also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before the year 1400.

**Art History I – EL4002**
Introducing art within a historical, social, geographical, political, and religious context for understanding of art and architecture through the ages, EL4002 offers high school students an in-depth overview of art through history, with lessons organized by chronological and historical order, and world regions. Students enrolled in the course will cover topics including: Early Medieval Art and Romanesque Art; Art in the 12th, 13th, and 14th Centuries; 15th Century Art in Europe; 16th Century Art in Italy: The Master Artists; High Renaissance and Baroque Art; World Art, which includes the Art of Asia and Art of Africa, the Americas, and the Pacific Cultures; 18th and 19th Century Art in Europe and the Americas; and concludes with an art unit that covers Modern Art in Europe and the Americas.
Strategies for Academic Success – EL1087*
Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, EL1087 encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this course covers important study skills, such as taking high quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

Health and Physical Education Bundle

Foundations of Personal Wellness – EL2082**
Exploring a combination of health and fitness concepts, EL2082 is a comprehensive and cohesive course which explores all aspects of wellness. Offered as a two-semester course designed for high school students, coursework uses pedagogical planning to ensure that as students explore fitness and physical health, and encourages students to learn about the nature of social interactions and how to plan a healthy lifestyle.

This course can also be configured as a one-semester Healthy Living course or a one-semester Lifetime Fitness course.

Lifetime Fitness – EL2083*
Exploring fitness topics such as safe exercising and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, EL2083 equips high school students with the skills they need to achieve lifetime fitness. Throughout this one-semester course, students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design a fitness program to meet their individual fitness goals.

Healthy Living – EL2081*
Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, EL2081 is a one-semester course that provides students with comprehensive information they can utilize to develop healthy attitudes and behavior patterns. Designed for high school students, this informative and engaging course encourages students to recognize that they have the power to choose healthy behaviors in order to reduce risks.
Introduction to C++ – PRG110*
As students work with Microsoft® Visual C++® 2008 Express Edition, they will gain a solid foundation in the core concepts of programming. Students will create a variety of classic programs as they learn about object-oriented programming, including defining classes, creating objects, and declaring private and public variables and methods. Students will work with file streams, functions, buttons and dialog boxes, libraries, and variable types as they learn everything they need to know to compile and run a C++ program.

Flash™ Game Development – FLA120*
This introductory course teaches the fundamentals of game design and development through step-by-step projects in Adobe® Flash®, a professional grade software program. Students will create a diverse portfolio of games, incorporating game mechanics such as point-and-click, click-and-drag, shooter, scrolling action, and multi-room exploration. As they complete these projects, students will learn about and use the Flash workspace and tools, including the timeline, layers, keyframes, libraries, and assets.

Technology Electives

ComputerApplications (Office® 2007) – EL4082*
Offering insight into the suite of products most used by working professionals, EL4082 will challenge high school students to become proficient in Word®, Excel®, PowerPoint®, and Outlook® through engaging lessons and coursework. This one-semester course is designed to provide students with hands-on experience with tasks such as creating flyers, brochures, schedules, presentations, and mail merge.

Flash™ Game Development – FLA120*
This introductory course teaches the fundamentals of game design and development through step-by-step projects in Adobe® Flash®, a professional grade software program. Students will create a diverse portfolio of games, incorporating game mechanics such as point-and-click, click-and-drag, shooter, scrolling action, and multi-room exploration. As they complete these projects, students will learn about and use the Flash workspace and tools, including the timeline, layers, keyframes, libraries, and assets.

Computer Literacy – TCH110*
In this course, students will gain the basic computer skills they need to become confident and prepared to use technology at school, at work, and in everyday life. Topics include search engines and web browsers, keyboarding and typing, presentations and image editing, and spreadsheets. Students will also become familiar with a number of free, web-based applications, such as Gmail™, OpenOffice.org®, Blogger™, Google™ Calendar, and GoogleReader™.

Computer Science II – CSC210*
In Part II of this introductory series, students will deepen their knowledge of Python and develop their programming skills through a series of complex programming projects that require creative thinking and problem solving. Topics include arrays and sets, generators and namespaces, loops, packages and libraries, and file handling. Students will also learn to program simple games. (Prerequisite: Computer Science I)

Engineering Electives*

Engineering Design I – EGR110*
This introductory engineering course teaches the basics of computer-aided design: creating geometric forms, interpreting 2D and 3D drawings of objects, and editing isometric and perspective drawings in a 3D CAD environment. As students create a diverse portfolio of projects, they will gain the foundation needed to translate abstract concepts into functional designs. Throughout the course, students will use CAD Standard Lite and Google SketchUp™ software, two versatile free alternatives to more expensive CAD software such as AutoCAD®.

Engineering Design II – EGR210*
Part II of this introductory engineering series builds on knowledge of core engineering concepts as students continue working in a professional CAD environment. Students will learn the steps of the design process by modeling and building paper towers, bridges, or platforms. Students will use Creo Elements/Direct™, a 3D CAD modeling program used by professional engineers. (Prerequisite: Engineering Design I)
Digital Arts Electives

3D Art I: Modeling – ART110*
This introductory design course teaches the fundamental concepts of 3D modeling and allows students to explore the basic concepts and skills of 3D animation. In this course, students will work with Blender® to create projects such as an image of a monkey wearing a hat, a landscape terrain, an animation of a creature walking, and many more.

3D Art II: Animation – ART210*
This design course builds on the foundational skills taught in Part I. By working on animations such as a bouncing ball with realistic movement, lighting animation that changes color and brightness, a robot arm that lifts and drops balls, and a variety of other projects, students will gain an understanding of the skills they will need to succeed as professional animators. (Prerequisite: 3D Art I: Modeling)

Digital Arts I – ART120*
As students learn and work with Inkscape, they will gain a solid foundation of the basic elements of visual art: line, shape, form, color, value, space, and texture. The students will learn about processes for evaluating artwork, selected artists’ works, styles and historical periods, methods of working with color, and many other topics that will help them express themselves in original digital drawings and artwork.

Digital Arts II – ART220*
In Part II of this online class, students will continue to use Inkscape as they learn about the principles and elements of art and design. By the end of this course, each student will have created a unique portfolio of digital artwork, including repeating images to be used as a computer’s desktop background, a logo with text, two images scaled proportionally to one another, and a poster image and layout. (Prerequisite: Digital Arts I)

Image Design and Editing – DPG110*
This introductory design class teaches students the basics of composition, color, and layout through a series of hands-on projects that allow them to use their creativity while learning important foundational skills. Using the program GIMP, students will create a graphic design portfolio with a wide variety of projects to include cropping and colorizing images, tracing photos, creating posters using filters, creating comics with talk bubbles and text, and many other projects that will help them develop the skills they need to create and edit images of their own.

Game Design – GDN110*
In this online class, students will work with the Multimedia Fusion 2® software program to obtain a solid foundation in the fundamentals of game design and development. Each student will create an impressive portfolio of interactive, engaging games such as a classic two-player ping pong game, a Block-breaking action game, a maze game with moving obstacles, and a variety of others.

Audio Engineering – AUD110*
Through a series of hands-on Audacity® projects, this introductory audio engineering course teaches students the four main steps of professional recording: recording, editing, mixing, and mastering. Students will learn about Audacity’s workspace and tools, tones and waveforms, recording studios and formats, Musical Instrument Digital Interface (MIDI) and Digital Audio Workstations (DAW®), syncing audio, and many other topics relating to the field of audio engineering.

Flash™ Animation – FLA110*
This introductory course teaches animation essentials through hands-on projects in Adobe® Flash®, a professional grade software program used by animation experts worldwide. Students will create a diverse portfolio of Flash animations, including an interactive underwater scene, an airplane movie with motion paths, characters with mouths that lip sync to a voice, and more creative animations of their own.

Green Design and Technology – TCH150*
This introductory course will explore the basic principles of sustainable design. Because demand for sustainable products is rising, knowledge of these concepts is a valuable asset in today’s workplace. Students will learn about topics such as calculating an ecological footprint, waste management, transportation planning and green vehicles, and the economy’s impact on the environment.

Introduction to Entrepreneurship I – BUS110*
Students will master the basics of planning and launching a business. Whether interested in creating a money making business or a nonprofit to help others, this course will give the students core skills needed to succeed as they learn about real-life teen entrepreneurs, characteristics of successful entrepreneurs, pros and cons of self-employment, and how to attract investors and manage expenses.
Introduction to Entrepreneurship II – BUS210*
In Part II of this introductory course, students will hone their skills and continue to learn the key business concepts they will need to plan and launch a business of their own. Students will learn about setting personal visions and goals for their business, sales stages, opportunities and strategies, planning and budgeting, and interpersonal communication in the workplace. (Prerequisite: Intro to Entrepreneurship I)

Introduction to Marketing I – BUS170*
In this class, students will master the basics of marketing, including core concepts of financing, pricing, distribution, and product management. They will learn the basics of economic systems, efficiency and productivity, managing business finances, minimizing risk, and promoting and advertising a business.

Introduction to Marketing II – BUS270*
In Introduction to Marketing II, students will continue to learn the principles and techniques they will need to market a new business successfully. By the end of the course, each student will have completed a comprehensive marketing plan for a new business. Students will also learn about real-life stories from marketing professionals, sales techniques, hiring employees, applying and interviewing for jobs, and writing and formatting business documents using OpenOffice.org®. (Prerequisite: Introduction to Marketing I)

Personal Finance – BUS150*
This course will teach students fundamental economic principles and the basics of managing their money. It will help them understand the world of finance as they learn about financial planning, creating a budget, filling out tax forms, opening bank accounts, and saving money for the future.

Test Preparation

National Tests**
The Virtual Tutor test preparation courses are designed to help students prepare for national standardized exams.

SAT®
- Mathematics
- Critical Reading
- Critical Writing

ACT®
- Mathematics
- Reading
- English
- Science
- Writing

COMPASS®
- Mathematics
- Reading
- Writing

ACCUPLACER®
- Sentence Skills
- Reading Comprehension
- Arithmetic
- Elementary Algebra
- Written Essay

End-of-Course and Exit Exams
e2020 provides a variety of Virtual Tutor courses to prepare students for their state-specific end-of-course or exit exams. These courses are customized to include only the objectives covered in each exam.

Custom Course Development
e2020 can customize any course to align to the pacing plan of a specific district. Contact us to learn more about custom course development for your students.
Coming – Fall 2012

**Introduction to STEM**
This course provides an introduction to the various fields of science, technology, engineering, and mathematics and their interrelationships. Through a series of hands-on software projects and written assignments, students explore the fundamentals of system modeling and design. Students will learn about the application of design methodologies to a variety of engineering specialties, along with the social and political consequences of technological change.

**Introduction to IT**
This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology.

**Introduction to Health Science**
This course introduces students to a variety of healthcare careers as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students will learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care.

**Introduction to Business**
In this introductory course, students learn about the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, taxation, and business planning are introduced to provide students with a strong background as they prepare to make important decisions as business owners, consumers, wage earners, and citizens. Students also explore the real-world impact of technology, effective communication, and interpersonal skills through hands-on software projects and written assignments.

*One-semester course  •  **Two-semester course
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EDDIE AWARDS
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The Annual Education Software Review

AWARDS of EXCELLENCE
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BEST EDUCATIONAL SOFTWARE AWARDS
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ComputED Gazette, Carlsbad, CA