

San Jose Cyber Academy 2021-2022 Course Catalog



San Jose Cyber Academy
11363 San Jose Blvd, # 200, Jacksonville, Florida 32223
(904) 649-5425 | sanjosecyber.org | info@sanjosecyber.org

San Jose Cyber Academy reserves the right to modify, discontinue or add courses and course descriptions as it deems appropriate at any time, and does not require student or family acknowledgment or consent to enforce the policies herein.

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GENERAL INFORMATION

CURRICULUM

San Jose Cyber Academy has partnered with Edgenuity to provide Florida State standards-aligned, online courses for grade K-12 students. The curriculum offers a variety of customizable courses that include direct-instruction videos featuring expert, on-screen teachers with rigorous assignments, performance tasks and assessments to engage students and ensure subject-area mastery. The Edgenuity curriculum meets Florida graduation requirements.

ADVANCED AND HONORS COURSES

Advanced and honors courses require a greater demand on students through increased academic rigor. Academic rigor is obtained through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted. Students are challenged to critically think about the content they are learning.

AP COURSES

The Advanced Placement (AP) Program enables willing and academically prepared students to pursue college-level studies while still in high school. The program consists of college-level courses developed by the AP Program that high schools can choose to offer and corresponding exams that are administered once a year through the College Board. AP textbooks are either included or embedded into courses, so there is no need to purchase textbooks.

CAREER AND TECHNICAL EDUCATION (CTE)

CTE is a career preparatory program that increases high school graduation rates and economic advancement as it prepares students with the academic and career skills they may not receive in other types of high school diploma programs. Students develop personal skills, workplace skills, and technical skills grounded in academics. The school currently offers the following CTE Career Cluster: Information Technology (IT). This cluster involves opportunities in computer information technology, web design, coding, game development, robotics, building and maintaining computer networks, administrative services, office management and accounting. The school offers two programs under the IT Career Cluster. Students may select one of the following programs: Applied Information Technology (AIT) or Computer Systems and Information Technology (CSIT). *Note: The CTE program is only available to local students residing in Duval County due to the nature of the program. However, students not enrolled in the 18 credit CTE diploma pathway option may take CTE courses to fulfill elective course requirements.

DUAL ENROLLMENT

Full-time students can take dual credits during their junior and senior years. This means that students are dually enrolled with San Jose Cyber Academy and a partnering college. The school currently partners with Doral College, located in Doral, Florida. Doral College offers an Associate of Arts degree. Courses are offered online during fall, spring and summer. Upon successful completion of required coursework and assessments, dual enrolled students who began taking courses during their junior year may potentially graduate with a high school diploma from SJCA and an A.A. degree from Doral College. *Note: Not all program courses are available every semester. Course availability is subject to adequate enrollment.

ELEMENTARY SCHOOL (K-5) COURSE LIST

ENGLISH LANGUAGE ARTS, K-5

5010041: Language Arts Kindergarten
 5010042: Language Arts Gr. 1
 5010043: Language Arts Gr. 2
 5010044: Language Arts Gr. 3
 5010045: Language Arts Gr. 4
 5010046: Language Arts Gr. 5

MATHEMATICS, K-5

5012020: Mathematics Gr. K
 5012030: Mathematics Gr. 1
 5012040: Mathematics Gr. 2
 5012050: Mathematics Gr. 3
 5012060: Mathematics Gr. 4
 5012070: Mathematics Gr. 5

SCIENCE, K-5

5020010: Science Gr. K
 5020020: Science Gr. 1
 5020030: Science Gr. 2
 5020040: Science Gr. 3
 5020050: Science Gr. 4
 5020060: Science Gr. 5

SOCIAL STUDIES, K-5

5021020: Social Studies Gr. K
 5021030: Social Studies Gr. 1
 5021040: Social Studies Gr. 2
 5021050: Social Studies Gr. 3
 5021060: Social Studies Gr. 4
 5021070: Social Studies Gr. 5

ELECTIVES, K-5

ART, K-5

5001010: Art Gr. K (Arts and Crafts, K-2)
 5001020: Art Gr. 1 (Arts and Crafts, K-2)
 5001030: Art Gr. 2 (Arts and Crafts, K-2)
 5001040: Art Intermediate 1 (Art Level 1)
 5001050: Art Intermediate 2 (Art Level 2)
 5001060: Art Intermediate 3 (Art Level 3)

HEALTH, K-5

5008020: Health Kindergarten (Health K-1)
 5008030: Health Gr. 1 (Health K-1)
 5008040: Health Gr. 2 (Health 2-3)
 5008050: Health Gr. 3 (Health 2-3)
 5008060: Health Gr. 4 (Health 4-5)
 5008070: Health Gr. 5 (Health 4-5)

PHYSICAL EDUCATION, K-5

5015020: Physical Education Gr. Kindergarten
 (Physical Education K-1)
 5015030: Physical Education Gr. 1 (Physical
 Education K-1)
 5015040: Physical Education Gr. 2 (Physical
 Education 2-3)
 5015050: Physical Education Gr. 3 (Physical
 Education 2-3)
 5015060: Physical Education Gr. 4 (Physical
 Education 4-5)
 5015070: Physical Education Gr. 5 (Physical
 Education 4-5)

MIDDLE SCHOOL (6-8) COURSE LIST

ENGLISH LANGUAGE ARTS, 6-8

1001010: M/J Language Arts 1
 1001020: M/J Language Arts 1 Adv
 1001040: M/J Language Arts 2
 1001050: M/J Language Arts 2 Adv
 1001070: M/J Language Arts 3
 1001080: M/J Language Arts 3 Adv

MATHEMATICS, 6-8

1205010: M/J Grade 6 Mathematics
 1205020: M/J Grade 6 Mathematics Adv
 1205040: M/J Grade 7 Mathematics
 1205050: M/J Grade 7 Mathematics Adv
 1205070: M/J Grade 8 Pre-Algebra
 1200310: Algebra 1

SCIENCE, 6-8

2002040: M/J Comprehensive Science 1
 2002050: M/J Comprehensive Science 1 Adv
 2002070: M/J Comprehensive Science 2
 2002080: M/J Comprehensive Science 2 Adv
 2002100: M/J Comprehensive Science 3
 2002110: M/J Comprehensive Science 3 Adv
 2001010: M/J Earth/Space Science
 2000010: M/J Life Science
 2003010: M/J Physical Science

SOCIAL STUDIES, 6-8

2106010: M/J Civics
 2106020: M/J Civics Adv
 2100010: M/J United States History
 2100020: M/J United States History Adv
 2103015: M/J World Geography
 2109010: M/J World History
 2109020: M/J World History Adv

PHYSICAL EDUCATION, 6-8

Section 1003.455, F.S. requires 1 semester of P.E. each year for students in Gr. 6-8.
 1508000: M/J Fitness 6*
 1508060: M/J Comprehensive Physical Education Grade 6/7*
 1508070: M/J Comprehensive Physical Education Grade 7/8*

ELECTIVES, 6-8

0102040: M/J Creative Photography A and B
 0103000: M/J Digital Art and Design
 1301090: M/J Exploring Music 1 A and B
 0708000: World Language Spanish 1
 0708010: World Language Spanish 2

HIGH SCHOOL (9-12) COURSE LIST

ENGLISH LANGUAGE ARTS, 9-12

1001310: English 1 (1)
 1001340: English 2 (1)
 1001370: English 3 (1)
 1001400: English 4 (1)

MATHEMATICS, 9-12

1200310: Algebra 1 (1)
 1200330: Algebra 2 (1)
 1206310: Geometry (1)
 1202340: Pre-Calculus Honors (1)
 1210300: Probability and Statistics with Applications Honors (1)

SCIENCE, 9-12

2000310: Biology 1 (1)
 2003340: Chemistry 1 (1)
 2001310: Earth/Space Science (1)
 2003310: Physical Science (1)
 2003380: Physics 1 (1)

SOCIAL STUDIES, 9-12

2102335: Economics with Financial Literacy* (.5)
 2106310: United States Government* (.5)
 2100310: United States History (1)
 2109310: World History (1)

FINE ARTS, 9-12

0100320: Art in World Cultures* (.5)
 0100310: Introduction to Art History* (.5)

PHYSICAL EDUCATION, 9-12

3026010: HOPE - Physical Education (1)

ELECTIVES, 9-12

1700380: Career Research and Decision Making* (.5)
 2003350: Chemistry 1 Honors (1)

9003410: Computer Fundamentals (CTE AIT) (1)
 1009320: Creative Writing 1* (.5)
 1700370: Critical Thinking and Study Skills* (.5)
 9001230: CSIT Network Systems Configuration (1)
 9001240: CSIT Network Systems Design and Administration (1)
 8207310: Digital Information Technology (1)
 1501310: Fitness for Lifestyle Design* (.5)
 2002400: Integrated Science 1 (1)
 2002420: Integrated Science 2 (1)
 1501300: Personal Fitness (1)
 2107300: Psychology 1* (.5)
 2107310: Psychology 2* (.5)
 2108300: Sociology* (.5)
 1503350: Team Sports 1* (.5)
 1211300: Trigonometry Honors* (.5)
 9003460: Web Development Technologies (CTE AIT) (1)
 2103300: World Cultural Geography (1)
 0701320: World Language French 1 (1)
 0708340: World Language Spanish 1 (1)
 0701330: World Language French 2 (1)
 0708350: World Language Spanish 2 (1)

ADVANCED PLACEMENT (AP) - College Board

2000340: AP Biology (1)
 1202310: AP Calculus AB (1)
 1001420: AP English Language and Comp (1)
 1001430: AP English Literature and Comp (1)
 2001380: AP Environmental Science (1)
 0701380: AP French Language and Culture (1)
 2103400: AP Human Geography (1)
 2107350: AP Psychology (1)
 0708400: AP Spanish Language and Culture (1)
 1210320: AP Statistics (1)
 2106420: AP U.S. Government and Politics* (.5)
 2100330: AP U.S. History (1)
 2109420: AP World History: Modern (1)

ELEMENTARY SCHOOL (K-5) COURSE DESCRIPTIONS

ENGLISH LANGUAGE ARTS, K-5

5010041: Language Arts Kindergarten - Students learn vocabulary with multiple meanings and learn how words in a sentence relate to each other. Students learn phonics to sound out words while reading. Students are exposed to emergent-reader books and asked to answer questions about the plot, key ideas, and details of the story. Students learn to explain relationships between text and the illustrations and compare and contrast two different books on the same topic.

5010042: Language Arts Gr. 1 - Students develop skills for reading, writing and listening. Students learn syllables within a word and sounds, and learn how to explain the differences between the books that tell stories and give information.

5010043: Language Arts Gr. 2 - Students enhance their reading and writing skills by answering questions about a story. Students will understand that rhythm, structure, and points of view add meaning to the story.

5010044: Language Arts Gr. 3 - Students learn the difference between literal and nonliteral language. Students learn about chapters, scenes, and stanzas of written work and how these pieces fit together to produce a whole story. Students further develop their writing skills by learning how to use linking words and phrases, and words and phrases that show the order of events.

5010045: Language Arts Gr. 4 - Students learn how to link text to prior knowledge, and how to determine if information is a first or second hand account. Students practice reading nonfiction and learn how to make predictions about what will happen next in a story. Students continue writing practice and learn how to paraphrase to write essays.

5010046: Language Arts Gr. 5 - Students learn about grammar, practice reading different types of literature, and learn skills to be a good writer. Students learn how to make inferences, read context clues, and read to learn information. Students continue writing practice by learning how to express opinions, write letters, use literary devices, use word relationships in poetry, and compare and contrast texts.

MATHEMATICS, K-5

5012020: Mathematics Gr. K - Students use numbers, including written numerals, to represent quantities and to solve problems. Students describe their physical world using geometric ideas (shape, orientation, spatial relations) and vocabulary.

5012030: Mathematics Gr. 1 - Students develop strategies for adding and subtracting whole numbers based on their prior work with small numbers. Students develop and use different methods to add within 100 and subtract multiples of 10. Students develop an understanding of the meaning and processes of measurement.

5012040: Mathematics Gr. 2 - Students extend their understanding of the base-ten system. Students use their understanding of addition to develop fluency with addition and subtraction within 100. Students recognize the need for standard units of measure (centimeter and inch). Students describe and analyze shapes by examining their sides and angles.

5012050: Mathematics Gr. 3 - Students develop an understanding of the meanings of multiplication and division of whole numbers. Students develop an understanding of fractions. Students recognize area as an attribute of two-dimensional regions. Students describe, analyze, and compare properties of two-dimensional shapes.

5012060: Mathematics Gr. 4 - Students generalize their understanding of place value to 1,000,000, understanding the relative sizes of numbers in each place. Students develop understanding of fraction equivalence and operations with fractions. Students describe, analyze, compare, and classify two-dimensional shapes.

5012070: Mathematics Gr. 5 - Students apply their understanding of fractions and fraction models to represent the addition and subtraction of fractions with unlike denominators as equivalent calculations with like denominators. Students develop understanding of why division procedures work based on the meaning of base-ten numerals and properties of operations. Students recognize volume as an attribute of three-dimensional space.

SCIENCE, K-5

5020010: Science Gr. K - Students learn about Earth and space, and about gravity and its effect on objects. Students learn to identify the moon, sun, stars and the differences between the day and night.

5020020: Science Gr. 1 - Students learn about physical science, biology, and geology. Students learn the difference between living and nonliving things based on their properties. Students learn about different types of plants and animals. Students study the functions of the organs in their body. Students explore the Earth and study how the Earth changes through weathering, erosion, and earthquakes. Students learn about the three states of matter and how to describe their properties.

5020030: Science Gr. 2 - Students learn about gravity and magnets, how substances change from one state to another, the characteristics of plants and animals, and the function of key organs in the human body, such as the brain, heart, muscles, and digestive system.

5020040: Science Gr. 3 - Students learn about plants, animals, and ecosystems. Students learn about comets, asteroids, meteoroids, and about the contributions of Galileo to astronomy. Students study about types of energy such as light, sound, heat and electricity.

5020050: Science Gr. 4 - Students learn about matter and its states, elements, atoms and properties of matter. Students learn the differences between molecules, compounds and mixtures. Students learn about the solar system and the movement of Earth.

5020060: Science Gr. 5 - Students learn about the solar system and planets, atomic theory and states of matter, the law of conservation of energy, and electricity and its properties.

SOCIAL STUDIES, K-5

5021020: Social Studies Gr. K - Students learn about themselves, their families, and the community. Students are introduced to basic concepts related to history, geography, economics, and citizenship.

5021030: Social Studies Gr. 1 - Students expand their knowledge of family and community through explorations in history, geography, and economics and learn about their role as a citizen in their home, school, and community.

5021040: Social Studies Gr. 2 - Students investigate the impact of immigration over time in the United States, explore the geography of North America, and discover the foundations of American citizenship.

5021050: Social Studies Gr. 3 - Students learn about the physical and cultural characteristics of North America and the Caribbean, and focus on the regions of the United States, Canada, Mexico, and the Caribbean Islands.

5021060: Social Studies Gr. 4 - Students learn about Florida history focusing on exploration, colonization, growth, and the 20th Century and beyond. Students study the important people, places, and events that helped shape Florida history.

5021070: Social Studies Gr. 5 - Students study the development of the United States with emphasis on the people, places and events up to approximately 1850. Students learn about the historical, geographic, political, economic, and sociological events which influenced the initial inhabitation, exploration, colonization, and early national periods of American History.

ELECTIVES (K-5)

ART, K-5

5001010: Art Gr. Kindergarten (Arts and Crafts, K-2)

5001020: Art Gr. 1 (Arts and Crafts, K-2)

5001030: Art Gr. 2 (Arts and Crafts, K-2)

This course includes exploratory experiences that introduce a variety of concepts and ideas, and the safe use of materials. Students learn art vocabulary, terms, and procedures during the creative process that help them describe and talk about their work.

5001040: Art Intermediate 1 (Art Level 1) - Students experiment with a variety of concepts and ideas in art while using materials correctly and safely to convey personal interests. Students use accurate art vocabulary, terms, and procedures during the creative process to describe and talk about their work.

5001050: Art Intermediate 2 (Art Level 2) - Students experiment with a variety of two- and three-dimensional concepts and ideas in art. Materials are correctly and safely applied to convey personal interests and self-expression. Students use accurate art vocabulary, terms, and procedures with resources and time-management skills during the creative process. Attributes of artworks from individuals, cultures, and time are identified, described, and discussed.

5001060: Art Intermediate 3 (Art Level 3) - Students incorporate a variety of two- and three-dimensional concepts and ideas in art. Materials are correctly and safely applied to convey personal interests and self-expression. Observation skills, prior knowledge, and art criticism skills are employed to reflect on and interpret works of art. Students use accurate art vocabulary, terms, and procedures with resources and time-management skills during the creative process.

HEALTH, K-5

5008020: Health Kindergarten (Health K-1)

5008030: Health Gr. 1 (Health K-1)

Students learn to make healthy choices with the overall goal of improving quality of life. Students identify various health and safety influences, including family, friends, school, community, and media.

5008040: Health Gr. 2 (Health 2-3)

5008050: Health Gr. 3 (Health 2-3)

Students learn to make healthy choices with the overall goal of improving quality of life. Students learn to describe personal health and ways that a safe, healthy home environment can promote personal health and prevent injuries.

5008060: Health Gr. 4 (Health 4-5)

5008070: Health Gr. 5 (Health 4-5)

Students learn to make healthy choices with the overall goal of improving quality of life. Students learn to describe the relationship between a healthy behavior, environment and personal health, and learn how to prevent injuries and health problems.

PHYSICAL EDUCATION, K-5

5015020: Physical Education Gr. Kindergarten (Physical Education K-1)

5015030: Physical Education Gr. 1 (Physical Education K-1)

5015040: Physical Education Gr. 2 (Physical Education 2-3)

5015050: Physical Education Gr. 3 (Physical Education 2-3)

5015060: Physical Education Gr. 4 (Physical Education 4-5)

5015070: Physical Education Gr. 5 (Physical Education 4-5)

Establish a basic understanding of health and fitness. Focus on health-related fitness and learn how to become more fit and healthy. Learn about the following topics: exercise safety, making healthy choices, and nutrition; the benefits, components, and principles of fitness; basic anatomy and physiology; the values of cooperation and teamwork; age-appropriate motor, non-locomotor, and manipulative skills.

MIDDLE SCHOOL (6-8) COURSE DESCRIPTIONS

ENGLISH LANGUAGE ARTS, 6-8

1001010: M/J Language Arts 1

1001020: M/J Language Arts 1 Advanced

Students use texts of appropriate complexity to receive integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness. Narrative fiction, poetry, literary nonfiction, and informational texts are incorporated to build reading, writing and critical thinking skills. Practice and develop writing skills to produce narrative, argumentative, and explanatory essays.

1001040: M/J Language Arts 2

1001050: M/J Language Arts 2 Advanced

Students use texts of high complexity to receive integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness. Develop communication and reading comprehension skills; strengthen critical analysis skills while studying how nonfiction texts and literature can be used to share ideas.

1001070: M/J Language Arts 3

1001080: M/J Language Arts 3 Advanced

Students use texts of high complexity to receive integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness. Analyze various genres of literature to make connections with historical perspectives and the arts. Build on critical thinking and writing skills by studying a range of classic and contemporary literature.

MATHEMATICS, 6-8

1205010: M/J Grade 6 Mathematics

1205020: M/J Grade 6 Mathematics Advanced

Connect ratio and rate to whole number multiplication and division and use concepts of ratio and rate to solve problems; practice division of fractions and extend the notion of number to the system of rational numbers, which includes negative numbers; write, interpret, and use expressions and equations; develop an understanding of statistical thinking.

1205040: M/J Grade 7 Mathematics

1205050: M/J Grade 7 Mathematics Advanced

Understand and apply proportional relationships; develop an understanding of operations with rational numbers and work with expressions and linear equations; solve problems involving scale drawings and informal geometric constructions, and work with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; draw inferences about populations based on samples.

1205070: M/J Grade 8 Pre-Algebra

Work with radicals and integer exponents; understand the connections between proportional relationships, lines, and linear equations; analyze and solve linear equations and pairs of simultaneous

linear equations; define, evaluate, and compare functions; use functions to model relationships between quantities; understand congruence and similarity using physical models, transparencies, or geometry software; understand and apply the Pythagorean Theorem.

1200310: Algebra 1

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, called units, deepen understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions.

SCIENCE, 6-8

2002040: M/J Comprehensive Science 1

2002050: M/J Comprehensive Science 1 Advanced

A basic intermediate course intended to expose students to the designs and patterns in the physical universe. Provides a broad survey of the major areas of science, which include the study of plant systems, weather, plant and animal characteristics, the Earth, electricity and magnetism, and the different forms of energy.

2002070: M/J Comprehensive Science 2

2002080: M/J Comprehensive Science 2 Advanced

A basic intermediate course intended to expose students to the designs and patterns in the physical universe. Develop basic scientific skills and a broad survey of the major areas of science, which include an overview of major areas of science, mathematics in science, astronomy, the atmosphere, natural cycles, weather and climate, human anatomy and physiology, and careers in science.

2002100: M/J Comprehensive Science 3

2002110: M/J Comprehensive Science 3 Advanced

The course covers a variety of topics in the field of science, including an overview of chemistry, Earth and space science, and life sciences. Develop scientific inquiry skills and apply these skills to experiments. Apply mathematical concepts within the field of science.

2001010: M/J Earth/Space Science - The course is an overview of the structure of the Earth, of our solar system, galaxy and universe; of scientific inquiry and how scientific investigations are conducted; of basic cycles on Earth and how the Earth has changed over time, the layers of the Earth, how forces inside impact the surface, and how the Earth fits into our solar system and beyond.

2000010: M/J Life Science - The course focuses on the building blocks of life and the processes that sustain life on Earth to develop an understanding of life forms and how energy is passed from organism to organism. Learn how humans have impacted the Earth and how to lessen that impact.

2003010: M/J Physical Science - The course introduces students to the basic skills that scientists use when making scientific investigations and conducting scientific inquiry. This course covers the concepts of force and motion, light and the electromagnetic spectrum, and chemistry.

SOCIAL STUDIES, 6-8

2106010: M/J Civics

2106020: M/J Civics Advanced

Learn about the principles, functions, and organization of government; the origins of the American political system; the roles, rights, responsibilities of United States citizens; and methods of active participation in our political system. The course is embedded with strong geographic and economic components to support civic education instruction.

2100010: M/J United States History

2100020: M/J United States History Advanced

Study American history from the Exploration and Colonization period to the Reconstruction Period following the Civil War. Learn about the historical, geographic, political, economic, and sociological events which influenced the development of the United States and the resulting impact on world history.

2103015: M/J World Geography - Study the usage of geographic concepts, tools, and skills to draw conclusions about physical and human patterns. Develop an understanding of world political regions in terms of location, physical characteristics, population and culture, historical change, economic activity, and land use. Study methods of historical inquiry and primary and secondary historical documents.

2109010: M/J World History

2109020: M/J World History Advanced

Learn about the world's earliest civilizations to the ancient and classical civilizations of Africa, Asia, and Europe. Study the multiple dynamics of world history including economics, geography, politics, and religion/philosophy. Study methods of historical inquiry and primary and secondary historical documents.

PHYSICAL EDUCATION, 6-8

Section 1003.455, F.S. requires one (1) semester of P.E. each year for students in Gr. 6-8.

1508000: M/J Fitness 6* - This fitness course is designed for 6th grade students and intended to be 18 weeks in length. The purpose of this course is to provide students with the knowledge, skills, and values they need to become healthy and physically active for a lifetime. This course addresses both the health and skill-related components of physical fitness which are critical for students' success.

1508060: M/J Comprehensive Physical Education Grade 6/7* - This course is designed for 6th and 7th grade students and intended to be 18 weeks in length. The purpose of this course is to provide a foundation of knowledge, skills, and values necessary for the development of a physically active lifestyle. The course content provides exposure to a variety of movement opportunities and experiences. The

integration of fitness concepts throughout the content is critical to student success in this course and in the development of a healthy and physically active lifestyle.

1508070: M/J Comprehensive Physical Education Grade 7/8* - This course is designed for 7th and 8th grade students and is intended to be 18 weeks in length. The purpose of this course is to build on previously acquired knowledge, skills, and values necessary for the implementation and maintenance of a physically active lifestyle. The course content provides exposure to a variety of movement opportunities and experiences. The integration of fitness concepts throughout the content is critical to student success in this course and in the development of a healthy and physically active lifestyle.

ELECTIVES, 6-8

0102040: M/J Creative Photography A and B - Explore the aesthetic foundations of art using beginning photography techniques. Learn how to use an art criticism process to evaluate, explain, and measure artistic growth in personal or group works.

0103000: M/J Digital Art and Design - Explore the fundamental concepts, terminology, techniques, and applications of digital imaging to create original work. Students produce digital still and/or animated images.

1301090: M/J Exploring Music 1 A and B - Explore the essential elements of 20th- and 21st-century music in America (e.g., jazz, rock, soul, blues) and global cultures (e.g., Latin, Bollywood, European, Asian, world drumming). Reflect on the significance of social influences and historical events on the development of music. Focus on the creation, use, and performance of music; and the modes of listening, distributing, and gaining access to music.

0708000: World Language Spanish 1 - The course introduces students to the target language and its culture. Develop communicative skills in all modes of communication and cross-cultural understanding. Emphasis is placed on proficient communication in the language. An introduction to reading and writing is also included as well as culture, connections, comparisons, and communities.

0708010: World Language Spanish 2 - The course reinforces the fundamental skills acquired in World Language 1. Develop increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in World Language 1. Reading and writing receive more emphasis, while oral communication remains the primary objective.

HIGH SCHOOL (9-12) COURSE DESCRIPTIONS

ENGLISH LANGUAGE ARTS, 9-12

1001310: English 1 - Engage in literary analysis and inferential evaluation of classic and contemporary texts. The course involves critically reading fiction, poetry, drama, and literary nonfiction to improve comprehension and literary-analysis strategies. Read and analyze a range of classic texts and study short but complex texts, including influential speeches. Learn how to strengthen and produce clear, coherent writing. Course Length: Year; Number of Credits: One credit (1)

1001340: English 2 - Focus on application and reinforce literary analysis and twenty-first century skills with interesting pieces of literature and literary nonfiction, application e-resources, and educational interactives. Improve your literary analysis skills and learn how to apply them to a range of genres and text structures. Learn about media literacy, career skills, and the essentials of grammar and vocabulary. Learn how to compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays. Course Length: Year; Number of Credits: One credit (1)

1001370: English 3 - Delve into American literature from early American Indian voices through contemporary works. Engage in literary analysis and inferential evaluation of great texts. The course involves critically reading fiction, poetry, drama, and expository nonfiction to improve comprehension and literary analysis strategies. Read and analyze a range of short but complex texts. Continue to strengthen and produce creative, coherent writing. Course Length: Year; Number of Credits: One credit (1)

1001400: English 4 - Explore British literary traditions spanning from Anglo-Saxon writing to the modern period. Connect philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors. Learn about world literature and study literary works from India, Europe, China, and Spain. Course Length: Year; Number of Credits: One credit (1)

MATHEMATICS, 9-12

1200310: Algebra 1 - Learn about relationships between quantities and reasoning with equations; linear and exponential relationships; descriptive statistics; expressions and equations; and quadratic functions and modeling. Course Length: Year; Number of Credits: One credit (1)

1200330: Algebra 2 - Learn about polynomial, rational, and radical relationships; trigonometric functions; modeling with functions; inferences and conclusions from data; applications of probability. Course Length: Year; Number of Credits: One credit (1)

1206310: Geometry - Learn about congruence, proof, and constructions; similarity, proof, and trigonometry; extending to three dimensions; connecting algebra and geometry through coordinates; circles with and without coordinates. Course Length: Year; Number of Credits: One credit (1)

1202340: Pre-Calculus Honors - A comprehensive course that includes previous study of algebra, geometry, and functions into a preparatory course for calculus. Study linear, quadratic, exponential,

logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. Course Length: Year; Number of Credits: One credit (1)

1210300: Probability and Statistics with Applications Honors - Explore the fundamental concepts of probability and statistics through exercises that require students to interpret results, provide written explanations, find patterns, and make decisions. Develop the foundations of statistical inference mostly used in a wide variety of disciplines such as business and economics. Course Length: Year; Number of Credits: One credit (1)

SCIENCE, 9-12

2000310: Biology 1 - Learn about organisms and their relationship with the environment around them, using the basic principles of ecology. Study the anatomy, physiology and morphology in regards to plant and animal structure, function and behavior. Course Length: Year; Number of Credits: One credit (1)

2003340: Chemistry 1 - An introductory course explaining the composition of matter. Emphasis is placed on chemical principles and their application, problem solving, and the development of laboratory skills. Course Length: Year; Number of Credits: One credit (1)

2001310: Earth/Space Science - Study the processes that shape the Earth and explain the universe. Explore geology, oceanography, meteorology, and astronomy. Learn about the Earth's interior and the theory of plate tectonics. Learn about Earth's systems and their interactions. Explore the current theories that describe the formation of Earth, our Solar System, and the universe. Learn about the relationship between Earth Science and technology. Course Length: Year; Number of Credits: One credit (1)

2003310: Physical Science - An introductory course designed to allow students to explore the basic concepts of physical science. Students will be introduced to the history and nature of science. The course includes an introduction to the fundamental concepts of physics, chemistry, astronomy and Earth science. Course Length: Year; Number of Credits: One credit (1)

2003380: Physics 1 - Learn the basic concepts, principles and history of physics. Course includes selected topics in mechanics, heat, light, sound, electricity and magnetism, and modern physics. Course Length: Year; Number of Credits: One credit (1)

SOCIAL STUDIES, 9-12

2102335: Economics with Financial Literacy* - Study the concepts and processes of the national and international economic systems. Course Length: Semester; Number of Credits: Half credit (.5)

2106310: United States Government* - Study government institutions and political processes and their historical impact on American society. Course Length: Semester; Number of Credits: Half credit (.5)

2100310: United States History - Study United States history from Reconstruction to the present day through historical, geographic, political, economic and sociological events which influenced the

development of the United States and the resulting impact on world history. Course Length: Year; Number of Credits: One credit (1)

2109310: World History - Study the history of civilizations and societies of North and South America through historical periods leading to the beginning of the 21st Century. Course Length: Year; Number of Credits: One credit (1)

FINE ARTS, 9-12

0100320: Art in World Cultures* - Study selected works of art, utilitarian artworks, and architecture from around the world. Explore traditional forms and contemporary interpretations, including analysis of purpose, theme, cultural and historical context, formal qualities, symbols, and media. Compare various cultural responses to universal themes, as evidenced in their art. Learn about the value of preserving these works in today's museums and other public buildings, private collections, and in digital format. Course Length: Semester; Number of Credits: Half credit (.5)

0100310: Introduction to Art History* - Take an inquiry-based approach to exploring, researching, and analyzing works of art across time and cultures. Develop art-specific vocabulary to explore how the structural elements of art and organizational principles of design have been used to solve artistic challenges and create meaning. Learn to identify the functions, forms, media, styles of art, cultural ideas, and themes related to time periods and geographical places. Career options related to art history and criticism are also explored. Course Length: Semester; Number of Credits: Half credit (.5)

PHYSICAL EDUCATION, 9-12

3026010: HOPE - Physical Education - The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. Students will realize the full benefit of this course when it is taught with an integrated approach. In addition to the physical education content, specific health education topics within this course include: Mental/Social Health; Physical Activity; Components of Physical Fitness; Nutrition and Wellness Planning; Diseases and Disorders; Health Advocacy; First Aid/CPR; Alcohol, Tobacco, and Drug Prevention; Human Sexuality including Abstinence and HIV; and Internet Safety. Course Length: Year; Number of Credits: One credit (1)

ELECTIVES, 9-12

1700380: Career Research and Decision Making* - Develop career planning competencies, learn how to make informed career choices and develop the skills needed to successfully plan and apply for college or a job. Course Length: Semester; Number of Credits: Half credit (.5)

2003350: Chemistry 1 Honors - Explore Chemistry I concepts in greater depth. The academic pace and rigor will be greatly increased for honors level course work. Laboratory investigations include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures. Course Length: Year; Number of Credits: One credit (1)

9003410: Computer Fundamentals (CTE AIT) - In this introductory course, students will become familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as word processors, spreadsheets, and presentation software, as well as understanding social and ethical issues around the Internet, information, and security. Course Length: Year; Number of Credits: One credit (1)

1009320: Creative Writing 1* - This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating hybrid forms of poetry. Students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing. Course Length: Semester; Number of Credits: Half credit (.5)

1700370: Critical Thinking and Study Skills* - Develop skills related to critical thinking, learning and problem solving to enhance performance in both academic and non-academic areas. Learn strategies for acquiring, storing and retrieving information; time management and organizational skills; critical thinking operations and processes; oral and written communication; and problem solving skills including test taking skills. Course Length: Semester; Number of Credits: Half credit (.5)

9001230: CSIT Network Systems Configuration - The content includes, but is not limited to, how to plan, install, configure, monitor, troubleshoot and manage computer networks in a LAN/WAN environment. Students will be prepared to apply conceptual and theoretical knowledge to the workplace utilizing technical skills. Course Length: Year; Number of Credits: One credit (1)

9001240: CSIT Network Systems Design and Administration - The course provides an understanding of computer networks and how they operate, as well as a basic understanding of how to manage and maintain computer networks. Develop the ability to design, configure, and troubleshoot networks of all sizes. Learn the basics of network design, including how to identify network requirements and determine the proper network architecture. Learn about the requirements of network models, be introduced to local area networks, learn about Internet Protocol and the basics of routing data on a network. Also learn about wide area networks and network security issues, network management, and network operating systems and their role in connecting computers and facilitating communications. Course Length: Year; Number of Credits: One credit (1)

8207310: Digital Information Technology (CTE) - Receive a basic overview of current business and information systems and trends, and an introduction to fundamental skills required for today's business and academic environments. Develop fundamental computer skills. Prepare to be successful both personally and professionally in an information based society. DIT includes the exploration and use of: databases, the Internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards. After successful completion of this core course, students will have met Occupational Completion Point A, Information Technology Assistant - SOC Code 15-1151. Course Length: Year; Number of Credits: One credit (1)

1501310: Fitness for Lifestyle Design* - Explore fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management. 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. Course Length: Semester; Number of Credits: Half credit (.5)

2002400: Integrated Science 1 - Learn about the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures. Develop a growing understanding of the complexity and ambiguity of empirical work; develop the skills to calibrate and troubleshoot equipment used to make observations; understand measurement error; develop the skills to aggregate, interpret, and present the resulting data. Course Length: Year; Number of Credits: One credit (1)

2002420: Integrated Science 2 - A follow-up science course from Integrated Science 1 covering basic concepts found in physics, astronomy, Earth science, chemistry, biology, health, and scientific measurement. Course Length: Year; Number of Credits: One credit (1)

1501300: Personal Fitness - Learn about body functions, safety, diet, goals, and strategies for longevity. Explore the world of healthy living and see how real fitness can be achieved through intention, effort, and knowledge about the mind and body. Course Length: Year; Number of Credits: One credit (1)

2107300: Psychology 1*- Acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this first introductory course includes major theories and orientations of psychology, psychological methodology, memory and cognition, human growth and development, personality, abnormal behavior, psychological therapies, stress/coping strategies, and mental health. Course Length: Semester; Number of Credits: Half credit (.5)

2107310: Psychology 2* - Acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this second introductory course includes statistical research, psychobiology, motivation and emotion, sensation and perception, states of consciousness, psychological testing, and social psychology. Course Length: Semester; Number of Credits: Half credit (.5)

2108300: Sociology* - Through the study of sociology, students acquire an understanding of group interaction and its impact on individuals in order that they may have a greater awareness of the beliefs, values and behavior patterns of others. In an increasingly interdependent world, students need to recognize how group behavior affects both the individual and society. Course Length: Semester; Number of Credits: Half credit (.5)

1503350: Team Sports 1* - The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement, knowledge of team sports concepts such as offensive and defensive strategies and tactics, and appropriate social behaviors within a team or group setting. The integration of fitness concepts throughout the content is critical to the success of this course. Course Length: Semester; Number of Credits: Half credit (.5)

1211300: Trigonometry Honors* - Learn how to analyze, apply, and illustrate the properties of the unit circle; determine trigonometric values, calculate the transformations of trigonometric functions and graph trigonometric functions on the coordinate plane; utilize and apply trigonometric identities; use trigonometry to operate on complex numbers; and study advanced topics in analytic geometry through trigonometric techniques. Course Length: Semester; Number of Credits: Half credit (.5)

9003460: Web Development Technologies (CTE AIT) - This course begins with a historical tour of the Internet and World Wide Web as well as the programs and applications that made it possible for computer users on every continent to begin to explore and better understand their world. Then, through a step-by-step introduction to WordPress, students gain the tools and insight necessary to create their own web pages and discover their online voice. The course concludes with a survey of the continuing explosion of new apps designed to operate on one or more of the proprietary mobile devices. Students are given an opportunity to track fundamental changes in this growing industry as development has moved from the original model of a single experienced programmer developing a single app for distribution at little or no cost to a model in which retailers, non-profit organizations, government agencies, and Fortune 500 companies contract with mid-sized marketing and communications firms to develop sophisticated apps designed to raise global market and public awareness of institutions and issues. Additionally, students have an opportunity to understand that career opportunities in app development have evolved from programming and coding to now include marketing, public relations, creative arts, project and product management and sales, with a growing number of careers in the industry requiring little if any actual programming experience. Course Length: Year; Number of Credits: One credit (1)

2103300: World Cultural Geography - Study world cultural regions in terms of location, physical characteristics, demographics, historical changes, land use, and economic activity. Course Length: Year; Number of Credits: One credit (1)

0701320: World Language French 1

0708340: World Language Spanish 1

The course introduces students to the target language and its culture. Develop communicative skills in all modes of communication and cross-cultural understanding. Emphasis is placed on proficient communication in the language. An introduction to reading and writing is also included as well as culture, connections, comparisons, and communities. Course Length: Year; Number of Credits: One credit (1)

0701330: World Language French 2

0708350: World Language Spanish 2

The course reinforces the fundamental skills acquired in World Language 1. Develop increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in WL 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. Course Length: Year; Number of Credits: One credit (1)

ADVANCED PLACEMENT (AP) - College Board

2000340: AP Biology - An introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. Course Length: Year; Number of Credits: One credit (1)

1202310: AP Calculus AB - An introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Course Length: Year; Number of Credits: One credit (1)

1001420: AP English Language and Composition - An introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style. Course Length: Year; Number of Credits: One credit (1)

1001430: AP English Literature and Composition - An introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. Course Length: Year; Number of Credits: One credit (1)

2001380: AP Environmental Science - Explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. Course Length: Year; Number of Credits: One credit (1)

0701380: AP French Language and Culture - AP French Language and Culture is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges. Course Length: Year; Number of Credits: One credit (1)

2103400: AP Human Geography - An introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore

topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes. Course Length: Year; Number of Credits: One credit (1)

2107350: AP Psychology - An introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Course Length: Year; Number of Credits: One credit (1)

0708400: AP Spanish Language and Culture - An intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. Course Length: Year; Number of Credits: One credit (1)

1210320: AP Statistics - An introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. Course Length: Year; Number of Credits: One credit (1)

2106420: AP U.S. Government and Politics* - Study the key concepts and institutions of the political system and culture of the United States. Read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. Course Length: Semester; Number of Credits: Half credit (.5)

2100330: AP U.S. History - An introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. Course Length: Year; Number of Credits: One credit (1)

2109420: AP World History: Modern - An introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Course Length: Year; Number of Credits: One credit (1)