



**eSTREAM**  
ACADEMY

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# Courses Catalog

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# eSTREAM Academy Mission and Vision

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## **Vision**

To be leaders in innovative programs focused on science, technology, robotics, engineering, art and mathematics, promoting the continuous integral development of each student. eSTREAM Academy of Puerto Rico is an institution committed to: diversity, inclusion and social justice. The symbiotic relationship between educators and learners fosters a harmonious culture; where students are inspired and trained to develop knowledge competencies, to be creative, autonomous, balanced, culturally conscious thinkers and lifelong learners, with a passion to learn with a critical vision and act with sensitivity; capable of living in society demonstrating and reflecting their value training.

## **Mission**

Provide a learning environment focused on: science, technology, robotics, engineering, art and mathematics "S.T.R.E.A.M." for its acronym in English and, education for sustainable development. Avant-garde, challenging and proactive educational institution that cultivates independent thinking through critical research, collaborative work and reflection with the purpose of fostering educated, enterprising and trained individuals to find solutions in a world of diversity of challenges and capable of contributing to global sustainability.

## **Core Values**

Integrity  
Responsibility  
Independence  
Respect  
Excellence

# Middle School

## Language Arts Courses

### 1001010 Language Arts Grade 6

Students will work to further develop their skills in writing, reading, and speaking. They will use the six traits of writing to improve their writing and editing skills while being introduced to informative, persuasive, narrative, and descriptive writing styles. Emphasis will be placed on writing a clear and well developed paragraph. Students will undertake a detailed study of grammar learning and applying the eight parts of speech to their writing. Students will gain appreciation for various genres of literature as they read the novels for this course. Through those novels, they will study vocabulary, spelling, and the elements of literature.

### 1001040 Language Arts Grade 7

This course focuses on writing and literature. Students will review the eight parts of speech focusing on usage and applying the rules of grammar to their writing. As students work with functional, narrative, informative, and persuasive styles of writing, emphasis will be put on writing and editing a paper with an introduction, thesis, appropriate transitions, and a conclusion. In literature, students will study the elements of short stories as well as novels. They will further develop their vocabulary and spelling skills through these works of literature as well as use the themes presented to practice critical thinking skills and make real life applications.

### 1001070 Language Arts Grade 8

In these classes, the students will study vocabulary, literature, grammar, research, Internet usage, speech, and writing. The students will read novels in class for literary study; they will also read books and take tests to develop comprehension skills. The speeches and writings will be research based with appropriate documentation.

## Math Courses

### 1205010 Math Grade 6

The sixth grade math curriculum is designed for students to master addition, subtraction, multiplication and division of whole numbers, decimals and fractions; graphing and statistics; measurement and geometry; ratio, proportion and probability; percent; area and volume; and integers.

### 1205040 Math Grade 7

The seventh grade curriculum contains strong mathematical content with real-life connections. This course includes the basic study of: exponents, rounding, place value, metrics, order of operations, using various graphs, adding, subtracting, multiplication, and division of decimals and fractions. It also includes lowest common multiples, greatest common factors and probability. The course will involve integrating algebra throughout.

### 1205070 Pre-Algebra Grade 8

This course includes the basic study of percent applications, exponents, scientific notation, metrics, multi-step problems, lowest common multiples, greatest common factors, fractions, decimals, graphing, geometry, probability and statistics, and two variable equations in algebra.

## Science Courses

### 2002040 General Science Grade 6

This course covers a variety of scientific areas including life's structure and function, diversity of life, life and the environment, Earth's air and water, earth and space, matter, forces, and energy, electricity and magnetism.

### 2000010 Life Science Grade 7

The seventh grade Life Science covers living things around us that serve as the subjects of study for this course, including ecology, cell life and structure, life processes, classification, genetics, and organisms.

### 2003010 Physical Science Grade 8

The eighth grade program looks at the Physical Sciences of chemistry and physics. Here, the major topics are matter and energy, and how they can be changed for the good of man. Subjects covered include the structure of matter, the atom, motion, energy, simple machines, magnetism, waves, light, sound, and energy resources.

## Social Studies Courses

### 2103010 Social Studies Grade 6

Students are introduced to basic geography skills, the land, and its people. Students study the world's regions using the Five Themes of Geography. The regions include: Location (both absolute and relative), place (the physical and human characteristics), human/ environment interaction (the relationships within places) movement (the mobility of people, goods and ideas) and region (how they form and change)

### 2106010 Civics Grade 7

The seventh grade social studies course is the second part of a two year survey of United States history. It focuses on the period from 1860 to the present. The changing economic and social structure of the United States in the twentieth century is explored and evaluated. Special emphasis is placed on the evolving role of America as a global military and economic power and the effect of this development on our domestic political agenda. Effort is made to create interdisciplinary lesson plans that coincide with literature concurrently studied in English classes.

### 2100010 U.S. History Grade 8

The eighth grade social studies course is the beginning of a two year survey of United States history. It focuses on the period from the development of the first Native American cultures to the rise of sectional division in the 1850's. Basic geography skills, current events, and research projects are used to enhance student learning.

## Electives

### 1234510 Digital Citizenship

You may not have heard of the term "Digital Citizenship," but you are probably already familiar with the behaviors and expectations that being a good "digital citizen" consists of. In this online course, you'll learn the many different areas within the realm of Digital Citizenship and perhaps begin to think critically about your own behavior.

### 1009000 Digital Storytelling

Digital stories focus on a specific topic and contain a particular point of view. However, as the name implies, digital stories usually contain some mixture of computer-based images, text, recorded audio narration, video clips, and/or music. Digital stories can vary in length, but most of the stories used in education typically last between 2 and 10 minutes. The topics used in digital storytelling range from personal tales to the recounting of historical events, from exploring life in one's own

community to the search for life in other corners of the universe, and literally, everything in between.

### 1234520 Hospitality in Travel & Tourism

A course focused for students in Junior High (Grade 7, 8, and 9). "Traveling is part fun and part work! In order to have a great time you need to do a lot of planning. You have all the same basic needs when you travel that you do at home. You need to eat, sleep somewhere, and get around. There are a lot of details just GETTING to your destination. Will you take an airplane or drive? Do they use the same money as you do? Are there any diseases you need to be extra cautious of? Do you have a place to stay? Do you speak the language?" Nice for Geography of North America.

### 6020044 Introduction to Programming Using Scratch

Want to solve challenging problems? Want to learn some computer science? Want to make amazing games, drawings, and songs online? This is a course that introduces computer science ideas using the programming language Scratch. It is designed for students who have at least some familiarity with computer use and the concept of variables. While the course starts with the basics of using Scratch, the programming activities throughout the course will stretch your mind and challenge you! You are encouraged to use this material with a friend, in an after school program, or in a class.

### 0800000 Personal Fitness

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.

### 0400000 Theatre

Students learn the basics of building a character through such activities as pantomime, improvisation, and effective speaking using articulation, projection, and breathing. Students also learn the importance of technical theatre and explore the use of such elements as costumes, props, and scenery. Students practice writing for the theatre and explore various theatre roles and functions. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside of the school day to support, extend, and assess learning in the classroom.

# High School

## Language Arts Courses

### 1001310 English 1 (1 Credit)

English I provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. It offers instruction in reading and vocabulary strategies necessary for comprehension of printed materials; research; the writing of effective paragraphs and multi-paragraph papers, with emphasis upon all stages of the writing process in timed and untimed assessments (prewriting, drafting, revising, editing, publishing); speech instruction including formal and informal presentations; evaluation of mass media; the analysis of genres and the study of language in conjunction with writing, concentrating on conventions of grammar, usage, and mechanics. Technology is incorporated into all aspects of the course.

Prerequisite: N/A

### 1001340 English 2 (1 Credit)

English 2 provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. Content includes instruction in reading literature and in vocabulary strategies necessary to comprehend printed materials; the writing of essays for various purposes and audiences, using literary and nonliterary subjects; untimed and timed writings, utilizing all elements of the writing process where appropriate (prewriting, drafting, revising, editing and publishing); emphasis of applicable research; analysis of selections found in world literature; study of grammar, mechanics, usage and other conventions of standard written English in conjunction with writing; study of mass media, including analysis of propaganda and persuasion techniques; and instruction in speech, including analysis of effective techniques in oral presentations. Technology is incorporated into all aspects of the course.

Prerequisite: English 1

### 1001370 English 3 (1 Credit)

English 3 provides instruction in the Language Arts strands of reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. Composition instruction includes frequent practice in writing various types of multi-paragraph papers, including documented papers/projects. Referencing and summarizing skills will be stressed as well as all phases of the writing process (prewriting, drafting, revising, editing, and publishing). This study will include the analysis of representative examples of American literary works in various

genres, as they illustrate distinctive national qualities and the ethnic and cultural diversity of the American experience. Vocabulary, grammar, and usage are studied in conjunction with literature and writing. Listening, speaking, researching, and writing assignments are related to the study of American literature. Technology is incorporated into all aspects of the course.

Prerequisite: English 2

#### 1001400 English 4 (1 Credit)

English 4 provides instruction in the critical analysis of representative examples from British literature, as they reflect changes in the language and the development of the literary traditions of the English language. Writing experiences are structured to provide practice in real-life writing situations likely to be encountered beyond secondary school, including technical, creative, and traditional academic modes. Opportunity is provided to extend speaking, researching, and listening skills. Content includes instruction in vocabulary strategies and reading necessary for comprehension of printed materials. Technology is incorporated into all aspects of the course.

Prerequisite: English 3

### AP Courses in Language Arts

#### 1001430 Advanced Placement English Literature and Composition (1 Credit)

This course involves students in the study and practice of writing and in the study of literature. Students learn to use the modes of discourse and to recognize the assumptions underlying various rhetorical strategies. Students acquire an understanding of the resources of the language and an understanding of the writer's craft through the study of poetry, drama, fiction and expository prose. Students develop critical standards for the analysis of any literary work and increase their sensitivity to literature as shared experience. Students are expected to take the College Board examination for Advanced Placement English Composition and Literature.

Prerequisite: N/A

#### 1001420 Advanced Placement English Language and Composition (1 Credit)

The course provides a study of the semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. Examples of prose from various fields and periods serve as models of effective writing. This course provides a variety of writing opportunities that require the use of different styles and tones. Students develop individual writing styles adaptable to writing needs in college. Students are expected to take the Advanced Placement examination offered by the College Board.

Prerequisite: N/A 1001430

## Mathematics Courses

### 1200310 Algebra I (1 Credit)

This course is a study of the topics of Algebra I designed to develop the algebraic concepts and processes that can be used to solve a variety of real-world mathematics problems. The content will include: properties of the real number system; varied means for analyzing and expressing patterns, relations and functions; variables, algebraic expressions and polynomials; geometric concepts; set operations; dimensional analysis; data analysis concepts and techniques; and varied solution strategies, algebraic and graphic, solutions for inequalities, linear and quadratic equations, and systems of equations. Calculators and computers will serve as instructional tools in concept development. Credit in Algebra I precludes credit in Algebra IA and Algebra IB, Algebra I Honors, Applied Mathematics I and II, and Integrated Mathematics I and II.

Prerequisite: N/A

### 1200330 Algebra II (1 Credit)

This course is designed to continue the study of algebra and to provide the foundation for applying these skills to other mathematical and scientific fields. The content will include: structure and properties of the complex number system; sequences and series; relations; functions and graphs; varied solution strategies for linear equations, inequalities, and systems of equations and inequalities; quadratic, exponential, and logarithmic functions; and their applications; data analysis; reinforcement of geometric concepts, and probability. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I

### 1206310 Geometry (1 Credit)

The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. The content will include Euclidean geometry of lines, planes, angles, triangles, construction and logic, and properties of circles, polygons, right triangle trigonometry, and reinforcement of algebraic concepts. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I

### 1202340 Pre-Calculus (1 Credit)

This course is designed to strengthen and extend the student's knowledge of algebraic and trigonometric concepts and to prepare the student for calculus. The content will include mathematical induction, symbolic logic, Boolean and matrix algebra, probability and statistics, elementary functions and limits. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra II and Geometry

## Math AP Courses

### 1210320 Advanced Placement Statistics (1 Credit)

The purpose of this course is to offer students college-level mathematics under the guideline of the advanced placement program. The focus is on preparation for the statistics test given by the College Examination Board. Topics of study will include exploring data, using measurement in planning a study, producing models using probability and simulation to anticipate patterns, and statistical inference. Calculators and computers will serve as instructional tools in concept development. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data:

- Describing patterns and departures from patterns
- Sampling and Experimentation: Planning and conducting a study
- Anticipating Patterns: Exploring random phenomena using probability and simulation
- Statistical Inference: Estimating population parameters and testing hypotheses

### 1202310 Advanced Placement Calculus AB (1 Credit)

This course is designed to offer students college-level mathematics under the guidelines of the Advanced Placement Program. The focus is on preparation for the Calculus Level AB Test given by the College Examination Board in May. Study will begin by reviewing function definitions, absolute value, and elementary functions from prerequisites. Calculators and computers will serve as instructional tools in concept development. AP Calculus AB is a course designed to offer students college level mathematics under the guidelines of the Advanced Placement Program. The student enrolled in this course will be expected to take the Advanced Placement Examination in Calculus AB. Download a complete course description from the College Board website.

Prerequisite: Math Analysis or Pre-calculus

## Science Courses

### 2000310 Biology 1 (1 Credit)

Biology 1 will provide opportunities to students for general exploratory experiences and activities in the fundamental concepts of life. Topics will include but not be limited to: the scientific method, measurements, laboratory apparatus usage and safety, cell biology and cell reproduction, principles of genetics, biological change through time, classification, microbiology, structure and function of plants and animals, structure and function of the human body, and ecology.

Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: N/A

### 2003340 Chemistry 1 (1 Credit)

Chemistry I will provide opportunities for students to study the composition, properties, and changes associated with matter. Topics will include but not be limited to: classification and structure of matter, atomic theory, the periodic table, bonding, chemical formulas, chemical reactions, balanced equations, behavior of gases, physical changes, acids, bases, and salts. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: N/A

### 2003310 Physical Science (1 Credit)

Physics and chemistry, particularly mechanics, the laws of motion, energy, electricity, magnetism, the elements, molecules, atoms, subatomic particles, nuclear reactions, light, heat, the periodic table, organic chemistry, and biochemistry, are introduced. Laboratory activities are an integral part of this course.

Prerequisite: N/A

### 2003380 Physics 1 (1 Credit)

Physics will provide students with an in depth study of the theories and laws governing the interaction of matter, energy, and the forces of nature. Topics will include but not be limited to: kinematics, dynamics, energy, work, power, heat and thermodynamics, wave characteristics, light, electricity, magnetism, and nuclear physics. Virtual Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Algebra 2

### 2000350 Anatomy and Physiology (1 Credit)

The purpose of this course is to enable students to develop understanding of the relationships between the structures and functions of the human body. The content should include, but not be limited to, the following:

- Implementation of scientific habits of mind.
- Application of scientific knowledge, methodology, and historical context to solve problems
- Use of laboratory technologies.
- Terminology: cells and tissues, homeostasis, human genetics, growth, and development, body composition, structure, and function, internal and external changes and responses.

- Connections between anatomy, physiology, medicine, technology, society, and the environment.

Prerequisite: Teacher Recommendation

### 2000410 Zoology (1 Credit)

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that at the high school level, all students should be in the science lab or field, collecting data every week. School laboratory investigations (labs) are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models (NRC, 2006, p. 3). Laboratory investigations in the high school classroom should help all students develop a growing understanding of the complexity and ambiguity of empirical work, as well as the skills to calibrate and troubleshoot equipment used to make observations. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data (National Research Council, 2006, p.77; NSTA, 2007).

Prerequisite: N/A

## Science AP Courses

### 2000340 Advanced Placement Biology (1 Credit)

Advanced Placement Biology will provide students with a college level course in biology and will prepare the student to seek credit and/or appropriate placement in college biology courses. Topics will include but not be limited to: molecular and cellular biology, organism biology, and population biology. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Biology/Biology Honors and Teacher Recommendation

### 2003370 Advanced Placement Chemistry (1 Credit)

The purpose of this course is to study the development and application of chemistry principles and concepts. Includes the study of atomic structure and theory, the chemical properties of matter, chemical reactions, and energy changes. In addition, the student is given the opportunity to learn from detailed laboratory exercises, special projects, and research. Science, technology, and societal issues are integrated throughout the course. Prerequisite: Teacher Recommendation 2003420 Advanced Placement Physics B (1 Credit) Advanced Placement Physics will provide students with a college level course in physics and will prepare students to seek credit and/or appropriate placement

in college physics courses. Topics will include but not be limited to: kinematics, Newton's Laws of Motion, conservation laws in classical mechanics, torque, rotational equilibrium, gravitation, oscillation, kinetic theory and thermodynamics, electrostatics, electric currents, magnetism, waves and optics, and modern physics. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Teacher Recommendation

## Social Studies Courses

### 100310 United States History (1 Credit)

American History will provide students with the opportunity to acquire an understanding of the chronological development of the American people by examining the political economic, social, religious, military, scientific, and cultural events that have affected the rise and growth of the nation. Content to be covered will include, but not be limited to, an understanding of geographic-historic and time-space relationships, the synthesizing of American culture through the centuries, the origin of American ideals, the American colonial experience, the American Revolution and the Federal System, the Civil War as the solution to the secession issue, the technological and urban transformation of the country, and American foreign policy development.

Prerequisite: Recommended for 10th Grade

### 2102335 Economics with Financial Literacy (.5 credit)

The grade 9-12 Economics course consists of the following content area strands: Economics and Geography. The primary content emphasis for this course pertains to the study of the concepts and processes of the national and international economic systems. Students will acquire understanding in currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economic theories and economists, the role and influence of the government and fiscal policies, economic measurements, tools, and methodology, financial and investment markets, and the business cycle.

Prerequisite: Recommended for 11th Grade

### 2107300 Psychology I (.5 credit)

Psychology I will help students acquire an understanding of human behavior, behavioral interaction, and the progressive development of individuals. Appropriate concepts and skills will be developed through the theories and methods of study employed by psychologists, human growth and development, self-concept development, adjustment, motivation and desire, intelligence, conditioning and learning, memory, personality and behavior, emotion and frustration, abnormal behavior, conformity, autonomy, alienation, stress, mental health and therapy.

Prerequisite: N/A

### 2108300 Sociology (.5 Credit)

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.

Prerequisite: N/A

### 2106310 United States Government (.5 credit)

The United States Government will provide students the opportunity to acquire an understanding of American government and political behavior. Content to be covered will include, but not be limited to, an analysis of those documents which shape our political traditions (the Declaration of Independence, the Constitution, and the Bill of Rights), a comparison of the roles of the three branches of government at the local, state, and national levels, an understanding of the evolving role of political parties and interest groups in determining government policy, how the rights and responsibilities of citizens in a democratic state have evolved and been interpreted, and the importance of civic participation in the democratic political process.

Prerequisite: Recommended for 11th Grade

### 2109310 World History (1 Credit)

World History will provide students the opportunity to acquire an understanding of the chronological development of civilization by examining the political, economic, social, religious, military, dynastic, scientific, and cultural events that have affected humanity. Specific content to be covered will include, but not be limited to, an understanding of geographic, historic and time-space relationships, a review of prehistory, the rise of civilization and cultural universals, the development of religion and the impact of religious thought, the evolution of political systems and philosophies, the development of nationalism as a global phenomenon, the origin and course of economic systems and philosophies.

Prerequisite: Recommended for 9th Grade

## Social Studies AP Courses

### 2109420 Advanced Placement World History (1 Credit)

The AP World History course offers motivated students the opportunity to immerse themselves in the processes that, over time, have resulted in the knitting of the world into a tightly integrated whole. The course will cover 4 chronological periods from approximately 1000 AD to the present with careful preparation in terms of previous developments known as the Foundations segment.

Topics include, but are not limited to impact of interaction among major societies, the relationship of change and continuity impact of technology and demography on people and environment, systems of social structure and gender structure, cultural and intellectual developments, changes in functions and structures of states and in attitudes toward states and political identities.

Prerequisite: Teacher Recommendation

### 2100330 Advanced Placement United States History (1 Credit)

Advanced Placement American History will provide students with the opportunity to develop the analytic skills and factual knowledge necessary to deal critically with the problems, content, and materials of American historic development. Integral components of this course will include, but not be limited to, the formation of generalizations from primary sources in history, the synthesis and evaluation of information, the development of a set of criteria for judging proposed courses of action in terms of actual and projected consequences, the comparison of eras with similar trends, and analysis of the impact of major historical figures and groups on American and world events, the detection of bias in making conclusions, and the emergence of patterns in historical development.

Prerequisite: Teacher Recommendation

### 2106420 Advanced Placement United States Government and Politics (.5 credit)

This course will give students a critical perspective on politics and government in the United States. It requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. Specific content to be covered will include, but not be limited to, an understanding of federalism and the separation of powers, the development of the constitution, the process of politics, the nature of public opinion, the role of political parties and interest groups, the major formal and informal institutional arrangement of powers, and the development of civil liberties and civil rights.

Prerequisite: Teacher Recommendation

### 2102370 Advanced Placement Macroeconomics (.5 credit)

Advanced Placement Macroeconomics gives students an opportunity to analyze the worldwide effects of economic activities and their impact on taxation, monetary policy, balance of trade issues, government policy, exchange rates, and similar “big picture” concepts. Students will understand economic concepts, vocabulary, and statistical interpretation of economic data.

Prerequisite: Teacher Recommendation

### 2102360 Advanced Placement Microeconomics (.5 credit)

AP\* Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at

different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science.

Prerequisite: Teacher Recommendation

### 2107350 Advanced Placement Psychology (1.0 credit)

AP\* Psychology provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP Psychology prepares students for the AP exam and for further studies in psychology or life sciences.

## Fine Arts Courses

### 0100330 Art History and Criticism 1 Honors (1 Credit)

The purpose of this course is to explore the role of art in history and culture through observation and analysis of significant works of art and architecture from Prehistory through the 16th century. Student historians investigate the societal context of works, considering traditional forms and conventions of representation, symbology, and the purposes for which the art was created. The course includes an introduction to the methodologies of art history and criticism, study of the media and techniques used by artists from various cultures and time periods, and use of appropriate terminology in verbal and written analyses of artworks drawn from around the world. Student historians critique and compare works across time and cultures to develop an understanding of, and respect for, the visual arts as a chronicle of history, cultural heritage, and the human experience. This course may also incorporate hands-on activities and consumption of art materials.

Prerequisite: N/A

## Physical Education Courses

### 0800300 Health (.5 Credit)

The purpose of this course is to produce health literate students that make sound decisions and take positive actions for healthy and effective living. The course is wellness oriented and emphasizes responsible decision-making and planning for a healthy lifestyle. The content should include, but is not limited to, the following:

- Family life.
- Personal health (wellness planning, decision-making, goal-setting, prevention of child abuse and neglect).
- Internet safety.
- Mental and emotional health (prevention of depression interpersonal, coping skills and suicide)
- Nutrition (physical activity and wellness).
- Substance use and abuse (tobacco, alcohol, and other drug use and abuse).
- Injury prevention and safety (cardiopulmonary resuscitation (CPR) and automatic external defibrillator (AED), first aid for obstructed airway violence, gangs, and bullying).
- Personal health (human sexuality, including abstinence from sexual activity, and teen pregnancy prevention.
- Prevention and control of disease (including HIV/AIDS and other STIs).
- Community and consumer health (resources and advocacy).
- Teen dating violence (abuse prevention).

Prerequisite: N/A

### 3026010 Health Opportunities through Physical Education (HOPE) (1 Credit)

Developing physical skills and team sensibilities through physical education promotes active participation in home, school, and community learning and social activities, which, in turn, promotes participation in life. The content is intended to develop or expand the student's understanding of: 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; Cognitive Abilities, Lifetime Fitness, Movement, Responsible Behaviors and Values. 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.

Prerequisite: N/A

### 1501300 Personal Fitness (.5 Credit)

Personal Fitness provides students with opportunities to develop an individual optimal level of physical fitness, acquire knowledge of physical fitness concepts, and acquire knowledge of the significance of lifestyle on one's health and fitness. The content includes knowledge of the importance of physical fitness, assessment of the health related components of fitness, health problems associated with inadequate fitness levels, application of biomechanical and physiological principles to improve and maintain fitness, safety practices and psychological values of fitness including stress management, and sound nutritional practices and consumer issues related to physical fitness.

Prerequisite: N/A

## World Languages Courses

### 0701320 French 1 (1 Credit)

Introduces students to the target language and its culture. The student will develop communicative skills in all 3 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.

Prerequisite: N/A

### 0701330 French 2 (1 Credit)

Reinforces the fundamental skills acquired by the students in French 1. The course develops 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 French 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

Prerequisite: French 1

### 0708340 Spanish 1 (1 Credit)

The purpose of this course is to introduce students to the target language and its culture and to develop communicative skills and cross-cultural understanding. The content will include beginning skills in listening and speaking with special attention to pronunciation. An introduction to reading and writing will be included, as well as the fundamentals of grammar and culture.

Prerequisite: N/A

### 0708350 Spanish 2 (1 Credit)

The purpose of this course is to reinforce the fundamental skills acquired previously by the students. This course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. The content will include an expansion of listening and oral skills. Reading and writing will receive more emphasis, while oral communication remains the primary objective. This course will continue the cultural survey of Spanish-speaking people.

Prerequisite: Spanish 1

## World Languages AP Courses

### 0701380 Advanced Placement - French Language and Culture (1 Credit)

The AP French Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

Prerequisite: N/A

### 0708400 Advanced Placement - Spanish Language (1 Credit)

The purpose of this course is to develop oral and written fluency in the language. The content will include the requirements of the Advanced Placement program guidelines.

Prerequisite: Teacher Recommendation

## Elective Courses

### Foreign Language

**Note: Two credits in the same language are required for admission into state universities**

### 0708340 Spanish 1 (1 Credit)

The purpose of this course is to introduce students to the target language and its culture and to develop communicative skills and cross-cultural understanding. The content will include beginning

skills in listening and speaking with special attention to pronunciation. An introduction to reading and writing will be included, as well as the fundamentals of grammar and culture.

Prerequisite: N/A

### 0708350 Spanish 2 (1 Credit)

The purpose of this course is to reinforce the fundamental skills acquired previously by the students. This course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. The content will include an expansion of listening and oral skills. Reading and writing will receive more emphasis, while oral communication remains the primary objective. This course will continue the cultural survey of Spanish-speaking people.

Prerequisite: Spanish 1

### 0701320 French 1 (1 Credit)

Introduces students to the target language and its culture. The student will develop communicative skills in all 3 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.

Prerequisite: N/A

### 0701330 French 2 (1 Credit)

Reinforces the fundamental skills acquired by the students in French 1. The course develops 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 French 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

Prerequisite: French 1

## Fine Arts

### 0100330 Art History and Criticism 1 Honors (1 Credit)

The purpose of this course is to explore the role of art in history and culture through observation and analysis of significant works of art and architecture from Prehistory through the 16th century. Student historians investigate the societal context of works, considering traditional forms and conventions of representation, symbology, and the purposes for which the art was created. The course includes an introduction to the methodologies of art history and criticism, study of the media and techniques used by artists from various cultures and time periods, and use of appropriate terminology in verbal and written analyses of artworks drawn from around the world. Student

historians critique and compare works across time and cultures to develop an understanding of, and respect for, the visual arts as a chronicle of history, cultural heritage, and the human experience. This course may also incorporate hands-on activities and consumption of art materials.

Prerequisite: N/A

### 0400000 Theatre (1 Credit)

Students learn the basics of building a character through such activities as pantomime, improvisation, and effective speaking using articulation, projection, and breathing. Students also learn the importance of technical theatre and explore the use of such elements as costumes, props, and scenery. Students practice writing for the theatre and explore various theatre roles and functions. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside of the school day to support, extend, and assess learning in the classroom.

### 1300300 Music Appreciation: The Enjoyment of Listening (1 Credit)

Students learn how music is constructed and developed, and acquire a basic understanding of the structural, technical, and historical elements of music. Student theorists develop basic ear-training, keyboard, and functional singing skills, and engage in the creative process through individual and collaborative projects. Public performances may serve as a resource for specific instructional goals. Students may be required to attend one or more performances outside the school day to support, extend, and assess learning in the classroom.

Prerequisite: N/A

### 0400660 Theatre, Cinema and Film Production (1 Credit)

In Theatre, Cinema, and Film Production, a one-credit course, students explore the elements of film and cinematic techniques used by those who create movies. Students study the techniques in film that serve the story and articulate the theme. Students also prepare a comparative for theatre, film, and literature. Public performances may serve as a resource for specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or film production beyond the school day to support, extend, and assess learning in the classroom.

Prerequisite: N/A

## Law

### 8918010 Criminal Justice Operations (1 Credit)

This course is designed to introduce students to the fields of law enforcement, the court system, and the correctional system. The content includes career opportunities in these fields, court system, correctional system, interpersonal and communication skills, and employability skills.

Prerequisite: N/A

### 2106380 Law & Order: Introduction to Legal Studies (1 Credit)

The primary content for the course pertains to the examination of the American legal system and the nature of specific rights granted under the United States Constitution. Content should include, but is not limited to, the historical antecedents of laws and the basis for the creation of laws, the background, principles and applications of the United States Constitution, the rights protected by the Constitution and precedent-setting cases related to these rights, the process for enacting criminal laws at the state and local levels, the stages of the criminal justice system, the government and private agencies which provide services to individuals accused of crimes, the citizen's role in the legal system, the role of women and diverse cultural groups within the justice system, and careers in the justice system.

Prerequisite: N/A

### 2002480 Forensic Science 1 (1 Credit)

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that at the high school level, all students should be in the science lab or field, collecting data every week. School laboratory investigations (labs) are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models (NRC, 2006, p. 3). Laboratory investigations in the high school classroom should help all students develop a growing understanding of the complexity and ambiguity of empirical work, as well as the skills to calibrate and troubleshoot equipment used to make observations. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data (National Research Council, 2006, p.77; NSTA, 2007).

Prerequisite: N/A

## Physical Education

### 0800300 Health (.5 Credit)

The purpose of this course is to produce health literate students that make sound decisions and take positive actions for healthy and effective living. The course is wellness oriented and emphasizes responsible decision-making and planning for a healthy lifestyle. The content should include, but is not limited to, the following:

- Family life.
- Personal health (wellness planning, decision-making, goal-setting, prevention of child abuse and neglect).
- Internet safety.
- Mental and emotional health (prevention of depression interpersonal, coping skills and suicide).
- Nutrition (physical activity and wellness).
- Substance use and abuse (tobacco, alcohol, and other drug use and abuse).
- Injury prevention and safety (cardiopulmonary resuscitation (CPR) and automatic external defibrillator (AED), first aid for obstructed airway violence, gangs, and bullying).
- Personal health (human sexuality, including abstinence from sexual activity, and teen pregnancy prevention).
- Prevention and control of disease (including HIV/AIDS and other STIs).
- Community and consumer health (resources and advocacy).
- Teen dating violence (abuse prevention).

Prerequisite: N/A

### 3026010 Health Opportunities through Physical Education (HOPE) (1 Credit)

Developing physical skills and team sensibilities through physical education promotes active participation in home, school, and community learning and social activities, which, in turn, promotes participation in life. The content is intended to develop or expand the student's understanding of: 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; Cognitive Abilities, Lifetime Fitness, Movement, Responsible Behaviors and Values. 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.

Prerequisite: N/A

### 1501300 Personal Fitness (.5 Credit)

Personal Fitness provides students with opportunities to develop an individual optimal level of physical fitness, acquire knowledge of physical fitness concepts, and acquire knowledge of the

significance of lifestyle on one's health and fitness. The content includes knowledge of the importance of physical fitness, assessment of the health related components of fitness, health problems associated with inadequate fitness levels, application of biomechanical and physiological principles to improve and maintain fitness, safety practices and psychological values of fitness including stress management, and sound nutritional practices and consumer issues related to physical fitness.

Prerequisite: N/A

## Humanities and Social Sciences

### 2107300 Psychology I (.5 credit)

I will help students acquire an understanding of human behavior, behavioral interaction, and the progressive development of individuals. Appropriate concepts and skills will be developed through the theories and methods of study employed by psychologists, human growth and development, self-concept development, adjustment, motivation and desire, intelligence, conditioning and learning, memory, personality and behavior, emotion and frustration, abnormal behavior, conformity, autonomy, alienation, stress, mental health and therapy.

Prerequisite: N/A

### 2108300 Sociology (.5 Credit)

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.

Prerequisite: N/A

### Stress Management (1 credit)

### Social Problems I: A World in Crisis (.5 Credits)

### Social Problems II: Crisis, Conflicts & Challenges (.5 Credits)

### Philosophy: The Big Picture (.5 Credit)

## Business

### 8812100 Introduction to Business (1 Credit)

The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Business,

Management and Administration career cluster. The content includes but is not limited to fundamental knowledge and skills related to business functions in the Business, Management and Administration cluster. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures.

Prerequisite: N/A

### 8827110 Marketing Essentials (1 Credit)

This course is designed to prepare students for employment in various sales, customer service, advertising and promotion, and first line supervisory positions in wholesale, retail and service areas. Students will prepare to perform marketing and management functions and tasks as they relate to selling and retailing, e-commerce, sports and entertainment, and hospitality and tourism industries. Students will experience application of the following Florida Math Standards: number sense data analysis and probability, patterns and algebra, discrete math, and logic.

Prerequisite: N/A

### 7980040 Entrepreneurship: Starting Your Business (1 Credit)

The purpose of this course is to prepare students with disabilities to pursue entrepreneurship/self-employment. Students will acquire skills needed to explore their potential as entrepreneurs and develop necessary skills to plan and operate a business with support and assistance.

Prerequisite: N/A

## Sciences

### 2000350 Anatomy and Physiology (1 Credit)

The purpose of this course is to enable students to develop understanding of the relationships between the structures and functions of the human body. The content should include, but not be limited to, the following: implementation of scientific habits of mind application of scientific knowledge, methodology, and historical context to solve problems use of laboratory technologies terminology cells and tissues homeostasis human genetics, growth, and development body composition, structure, and function internal and external changes and responses connections between anatomy, physiology, medicine, technology, society, and the environment.

Prerequisite: Teacher Recommendation

### 2000410 Zoology (1 Credit)

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that

at the high school level, all students should be in the science lab or field, collecting data every week. School laboratory investigations (labs) are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models (NRC, 2006, p. 3). Laboratory investigations in the high school classroom should help all students develop a growing understanding of the complexity and ambiguity of empirical work, as well as the skills to calibrate and troubleshoot equipment used to make observations. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data (National Research Council, 2006, p.77; NSTA, 2007). Prerequisite: N/A

### 8111510 Veterinary Science: The Care of Animals (.5 Credit)

This course is designed to develop competencies in areas such as the history of the animal industry; applied scientific and technological concepts; safety; terminology; careers; breed identification; animal care and human relations skills.

Prerequisite: N/A

## Computers

### 5002000 Introduction to Computers (1 Credit)

The purpose of this course is to enable students to develop basic skills in computer fundamentals, keyboarding, computer applications, research tools, and educational applications. Within appropriate developmental guidelines the content of this course should enable students to:

- Understand computer specific terminology
- Demonstrate a basic knowledge of computer technology, function and application
- Demonstrate keyboard proficiency
- Use the computer to integrate all areas of the curriculum
- Create original works using multimedia tools
- Use computer programs and educational software to reinforce their learning
- Undertake research and expand their critical thinking skills
- Understand the importance of cyber safety and computer etiquette

Prerequisite: N/A

### 9007210 Introduction to C++ Programming (1 Credit)

In this introductory course, students learn basic programming concepts through a series of hands-on projects. They also learn about software development careers, the software development process, and industry best practices. Using Microsoft Visual C++ 7.0, students master the building blocks of programming: functions, variables, loops, arrays, and classes.

Prerequisite: N/A

## 82071100 Web Design with Dreamweaver (1 Credit)

This course is designed to provide a basic overview of the internet, intranet, and the World Wide Web (www). The content includes operating systems; basic html commands; navigation of the internet, intranet, and web; and web page design.

Prerequisite: N/A

## Gaming with Scratch (.5 Credit)

Learning to code will allow you to build basic coding or computer science skills and a fundamental understanding in order to grow your programming abilities. Learners will engage in the design process in order to develop an understanding of how to develop algorithms that control programs, use event-driven programming, and debug a program.

## VR Courses

### Biotechnology

This competency-based course provides the students with a solid foundation in biotechnology. Students will engage in interactive videos designed to teach students about career paths, research, data analysis, laboratory safety, and the use of laboratory equipment in the field of biotechnology. Additionally, students will examine topics that include Polymerase Chain Reaction (PCR), analysis of DNA structure, DNA replication, and the DNA purification process. Students will use virtual reality to demonstrate their knowledge of laboratory equipment by exploring the use of micropipettes, serological pipettes, and spectrophotometers. Students will also discover how to make a molar solution using virtual reality. Upon completion of this course, the students will be equipped with work-related knowledge and the skills necessary for careers in biotechnology. They will also earn a digital badge in biotechnology, and will be better prepared for the Biotechnology Certification Exam.

### Carpentry

This competency-based course provides the students with a solid foundation in carpentry. Students will engage in virtual reality and interactive videos designed to teach students how to use basic measuring tools, hand tools and machines commonly used in carpentry, to construct basic projects. Additionally, students will examine various wood construction materials and their properties. Throughout the course, students will learn components of site and personal safety, and how to interpret detailed drawings used for construction. Upon completion of this course, the students will be equipped with work-related knowledge and the skills necessary for careers in carpentry, a digital badge in Carpentry, and will be better prepared for the Carpentry Certification Exam.

## Criminal Justice

This competency-based course is designed to provide students with an overview of the criminal justice system. In the Criminal Justice course, students will engage in virtual reality and interactive videos designed to test their visual memory and ability to apply their skills to effectively manage a crime scene. Students will become immersed in topics that include criminal and constitutional law, security, and communications. Students will review basic law enforcement skills, which cover tactics, methods, and skills utilized by law enforcement. These concepts should be taken into consideration when taking this course and assessing implementation options. Upon completion of this course, students will be equipped with the knowledge and skills to earn a digital badge in Criminal Justice, and will be better prepared for the certification exam.

## Culinary Arts

This competency-based course provides an overview of the basic culinary fundamentals and standard practices leading into a career pathway to Culinary Arts. In this course, students will learn culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on identifying and preparing a variety of foods and recipes, as well as mastering conversions through the use of proper scaling and measurement techniques. Using virtual reality, students will prepare standard recipes while effectively managing time, accurately measuring ingredients, and appropriately using kitchen equipment. Food safety and sanitation techniques will align to industry-recognized certifications. Upon completion of this course, students will be equipped with the knowledge and skills to earn a digital badge in Culinary Arts, and will be better prepared for the certification exam.

## Drones

This competency-based course is designed to prepare students with the knowledge and skills to obtain the Federal Aviation Administration Remote Pilot Certificate. In this course, students will engage in virtual reality and interactive videos designed to teach students the skills and qualities of a pilot. Students will learn how weather affects the drone and will develop an understanding of the physics involved with flying, and much more! Students are immersed in topics that include emergency procedures, preflight inspection, radio communication, VLOS operations, sectional charts, aerial photography and search and rescue operations. Upon completion of this course, the students will be equipped with the knowledge and skills necessary to earn a digital badge in Drones, and will be better prepared to obtain a Remote Pilot Certificate.

## Fundamentals of Robotics

Robotics continues to grow, and so will the demand for people who work with them. This competency-based course is designed to provide students with the fundamentals of electronics,

computer programming, and engineering design that will lay a foundation on which to build a solid knowledge base about robotics. Students will become immersed in topics that include Ohm's Law, series and parallel circuits, direct and alternating current, DC motors, robot sensor operation, and much more! The students will use interactive video and virtual reality to learn how to program a robot. Upon completion of this course, students will be equipped with the knowledge and skills to earn a digital badge in Fundamentals of Robotics, and will be better prepared for the certification exam.

### Medical Assistant

This competency-based course is designed to prepare students with the knowledge and clinical skills necessary to assess, plan, provide, and evaluate care to patients in varied healthcare settings. Students will engage with interactive videos learning first aid principles, diagnostic testing, and laboratory procedures. Emphasis will be placed on safety, medical law, and medical interventions. Upon completion of this course, students will be equipped with the knowledge and skills to earn a digital badge as a Medical Assistant, and will be better prepared for the certification exam. Ultimately, this course was designed to provide students with a competitive edge for entry into the healthcare global marketplace.

### Nursing assistant

This competency-based course is designed to prepare students with knowledge of the basic nursing assistant skills which are necessary to assess, plan, provide, and evaluate care to patients in various healthcare settings. Students will engage with interactive videos, while learning about infection control, personal care skills, mental health needs, and legal responsibilities. Using virtual reality, students will learn how to obtain and record standard vital signs, identify basic body parts, demonstrate wheelchair assistance and ambulation, and perform a modified bed bath. Upon completion of this course, students will be equipped with the knowledge and skills to earn a digital badge as a Nursing Assistant, and will be better prepared for the certification exam. Ultimately, this course is designed to provide students with a competitive edge for entry into the healthcare global marketplace.

### Promobotics

Promobot is an autonomous robot, designed for a variety of business applications. This competency based course is designed to teach students how to program the Promobot. Students will apply the knowledge and skills necessary to program and operate the Promobot in virtual reality, or by using the Promobot itself. Through interactive videos, the students will learn robotic operations and system configurations. Students will code, compile, and debug programs using the robotic programming language. Upon completion of this course, students will be equipped with knowledge and skills to earn a digital badge in Promobotics, and will be better prepared for the certification exam.

## The art of Taekwon-Do: Earning a yellow belt

The Tenets of Taekwon-Do include: Courtesy, Integrity, Perseverance, Self Control, and Indomitable Spirit. In this competency based course, students will use these tenants as they learn the original Taekwon-Do from an 8th Degree Back Belt, Grand Master, who is a 9-time U.S. Open Grand Champion. An emphasis will be placed on Taekwon-Do's basic movements, patterns, blocking, and kicking techniques. Using virtual reality, students will practice these Taekwon-Do basic movements, which have been designed to perfect their skills and to prepare them to test for their yellow belt. Upon completion of this course, students will be equipped with the knowledge and skills to earn a digital badge in the Art of Taekwon-Do, and will be better prepared for their yellow belt test.

## Welding

This competency-based course is designed to provide students with knowledge of the basic manufacturing processes, properties of metals, and safe operating skills needed to demonstrate use of equipment in oxyfuel, shielded metal arc welding (SMAW), and gas metal arc welding (GMAW). The students will use virtual reality to perform oxy fuel cuts, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and Gas Tungsten Arc Welding (GTAW). The students will perform welds using SMAW and GMAW to current industry standards. Welding symbols will be used to interpret detailed drawings used for fabrication. Upon completion of this course, the students will be equipped with work-related knowledge and the skills necessary for careers in welding, a digital badge in welding, and will be better prepared for the Welding Certification Exam.

## Health, Wellness and Parenting

### 8417106 Orientation to Nursing (.5 Credit)

The purpose of this course is to acquaint students with career opportunities and job requirements in the field of nursing which will enable students to consider career objectives and interests. Reinforcement of basic skills in English, mathematics, and science appropriate for the job preparatory programs occurs through vocational classroom instruction and applied laboratory procedures or practice. Special projects that are related to nursing are provided, including role playing activities of daily living as a handicapped individual, developing an emergency evacuation plan for their own home, menu planning and feeding techniques, applying slings, use of wheelchairs, and creating their own nursing career plan. Team teaching and integration of the curriculum with English, Math and Science is encouraged.

Prerequisite: N/A

## Health Sciences: The Whole Individual (1 Credit)

### General Electives

#### 8806010 Fashion & Interior Design (0.5 Credit)

Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! In this course, you'll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field.

Prerequisite: N/A

#### 1009320 Introduction to Creative Writing (0.5 Credit)

The purpose of this course is to enable students to develop and use grade 9-10 writing and language skills for creative expression in a variety of literary forms. Studying and modeling a variety of genres will be emphasized at this level of creative writing.

Prerequisite: N/A

#### 1009330 Writing for Publication (0.5 Credit)

The purpose of this course is to enable students to develop and use grade 11-12 writing and language skills for creative expression in a variety of literary forms. Studying and modeling a variety of genres will be emphasized at this level of creative writing.

Prerequisite: N/A

#### 1006375 Introduction to Social Media: Our Connected World (0.5 Credit)

The purpose of this course is to enable students to develop fundamental skills in the use of social media across print, multimedia, web, and broadcast platforms, including ethical and legal uses.

Prerequisite: N/A

#### 1007300 Public Speaking (1 Credit)

The purpose of this course is to develop students' beginning awareness, understanding, and application of language arts as it applies to oral communication concepts and strategies in a variety of given settings.

Prerequisite: N/A

### 1400300 Peer Counseling (1 Credit)

The purpose of this course is to enable students to develop basic knowledge and skills in communication, meeting human needs, and conflict resolution. The content should include the following: Demonstrate knowledge of the functions and responsibilities of peer facilitators (e.g., listening, confidentiality, team building, conflict resolution, and intervention). Demonstrate awareness of varied behavioral responses to situational, environmental, and chemical elements; and the impact of subsequent decision-making on self and others. Demonstrate knowledge of basic human needs (e.g., food, clothing, shelter, recognition, development, security, identity) and the ways in which they can be met while developing group cohesion. Demonstrate use of basic facilitative communication skills (e.g., listening, questioning, feedback, paraphrasing, nonverbal communication, nonjudgmental response).

Identify your own feelings and needs and communicate them in a positive way. Demonstrate awareness of leadership styles (e.g., authoritarian, democratic, permissive). Demonstrate awareness of methods for dealing with conflict (e.g., communication, assertion, avoidance, aggression) and steps to resolution (i.e., set rules, gather perspectives, identify needs and goals, create and evaluate options, and generate agreement) Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

Prerequisite: N/A

### 8800510 Culinary Arts (1 Credit)

This course covers the history of the food service industry and careers in that industry. Also covered are safety in the workplace; employability skills; leadership/teamwork skills; care and use of commercial culinary equipment; basic food science; basic nutrition; and following recipes in food preparation labs.

Prerequisite: N/A

### 8201310 Digital Photography 1 (1 Credit)

This course provides competencies in photographic history, the production process, intellectual property rights, camera systems, support equipment, basic photography and workflow applications.

Prerequisite: N/A

### 5632480 Gothic Literature: Monster Stories (1 Credit)

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction. Prerequisite: N/A

### 2101300 Anthropology I: Uncovering Human Mysteries (1 Credit)

Anthropology course consists of the following content area strands: American History, World History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the study of the differences and similarities, both biological and cultural, in human populations. Students recognize the characteristics that define their culture and gain an appreciation for the culture of others. Content should include, but is not limited to, human biological and cultural origins, adaptation to the physical environment, the diversity of human behavior, the evolution of social and cultural institutions, patterns of language development, family and kinship relationships, and the effect of change on cultural institutions.

Prerequisite: N/A

### M899400 Sports & Entertainment Marketing (1 Credit)

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Marketing, Sales and Service career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Marketing, Sales and Service career cluster. The purpose of this program is to prepare students for employment or advanced training in the sport, recreation, and entertainment marketing and sales industry. The content includes, but is not limited to, employability skills; selling techniques; public relations and publicity; event planning and execution; and licensing, sponsorship, and endorsements.

Prerequisite: N/A

### 8905100 Cosmetology: Cutting Edge Styles (.5 Credit)

Students will explore career options in the field of cosmetology. Research into some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology-related businesses will also be presented. Prerequisite: N/A.

### 2001350 Astronomy: Exploring the Universe (1 Credit)

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us. This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

Prerequisite: N/A

### World Religions Exploring Diversity