



DON SOFFER AVENTURA HIGH SCHOOL PROGRAM OF STUDY

2022-2023 School Year



School Principal: Dr. Geoff McKee

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Governing Board

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PRINCIPAL'S MESSAGE

Dear Members of the Don Soffer Aventura High School Community,

Welcome to Don Soffer Aventura High School (DSAHS)! I am honored to join our students, their family members, teachers, and loved ones in a two-part mission. Part one is to make the high school years the most terrific years of our students' lives to date. Part two is to equip our students to make each future year even better. Here are some essential elements of this mission:

- Students experience TOP excellence, found at the intersection of each student's greatest "T" for talent, "O" for opportunity, and "P" for purpose.
- Support is provided for each student to take every course on the most challenging level that students can manage.
- Students have the opportunity to complete course requirements for the University of Cambridge Advanced International Certificate of Education (AICE) Diploma, as well as the College Board Advanced Placement Capstone Diploma.
- Extracurricular and athletic involvement is celebrated for student growth, and to develop resumes that impress college admission officers and scholarship judges.
- Students learn to formulate and clearly communicate sophisticated ideas verbally and in writing.
- Students develop the preparation and execution strategies necessary to generate a peak performance when it matters most in all areas of life, including standardized testing.
- Students advocate for themselves and others if ever support is needed or injustice is perceived, and all members of our community listen.

Considering what an amazing school community we have, it is reasonable to anticipate magnificent outcomes: The DSAHS graduation rate will be 100%; DSAHS will earn "A" ratings from the Florida Department of Education; the percent of students earning National Merit Recognition will rival Florida's top high schools; and our graduates will be prepared to attend elite universities, thrive in their careers, and become global leaders.

Thank you for partnering to empower our students achieve their greatest potential while affirming every day they are worthy of our complete respect, kindness, and devotion just as they are.

Sincerely,
Principal Geoff McKee, Ph.D.
Don Soffer Aventura High School

Don Soffer Aventura High School

Every year, in every core subject, every student should take the most challenging, manageable course.

AICE and Capstone Diploma, 9 th	AICE Diploma/Bright Futures, 9 th	College Prep, 9 th
<ol style="list-style-type: none"> 1. Honors Algebra 2 2. AICE Phys. Ed./Anat. & Physiology 3&4. AICE Eng.Gen.Paper/Glbl. Persp. 5&6. AICE Marine/AICE Env.Mgt. 7. World.Lang, or Elective 	<ol style="list-style-type: none"> 1. Geometry Honors 2. AICE Phys. Ed./Anat. & Physiology 3&4. AICE Eng.Gen.Ppr/Glbl. Persp. 5&6. Hon. Bio/AICE Marine block 7. World Lang. or Elective 	<ol style="list-style-type: none"> 1. Intensive Math Support 2. Algebra 1 Honors 3. Eng 1 Honors 4. Inten. Rdg. or ESOL Dev. Lang. 5. Hon. Bio. 6. Technology Elective 7. World Lang. or Elective
AICE and Capstone Diploma, 10 th	AICE Diploma/Bright Futures, 10 th	College Prep, 10 th
<ol style="list-style-type: none"> 1. AICE English Lang. 2. AICE International Hist. 3. AP Biology 4. Capstone Seminar 5. Pre-Calculus 6. World Lang. or Elective 7. AICE or AP Elective 	<ol style="list-style-type: none"> 1. AICE English Lang. 2. AICE International Hist. 3. AICE Enviro. Management 4. Honors Algebra 2 5. World Language or Elective 6. AICE Elective 7. AICE Elective 	<ol style="list-style-type: none"> 1. Pre-AICE International Hist. 2. Geometry Honors 3. Intensive Math Support 4. Honors Physical Science 5. English 2 Honors 6. Int.Rdg. or ESOL Dev. Lang. 7. Dig. Info. Tech. or elective
AICE and Capstone Diploma, 11 th	AICE Diploma/Bright Futures, 11 th	College Prep, 11 th
<ol style="list-style-type: none"> 1. AP English 2. Honors Chemistry 3. AP Capstone Research 4. AP Calculus AB 5. AP US History 6. AICE or AP Elective 7. World Lang. or Elective 	<ol style="list-style-type: none"> 1. AICE English Literature 2. Honors Chemistry 3. Pre Calculus or Honors Statistics 4. AICE US History 5. AICE or AP Elective 6. AICE or AP Elective 7. World Lang. or Elective 	<ol style="list-style-type: none"> 1. Pre-AICE US History 2. Algebra 2 3. Chemistry 4. AICE Eng. Gen. Paper 5. Technology Elective 6. World Lang. or Elective 7. General Elective
AICE and Capstone Diploma, 12 th	AICE Diploma/Bright Futures, 12 th	College Prep, 12 th
<ol style="list-style-type: none"> 1. AP English Literature 2. AP Statistics 3. AP Calculus BC 4. AP Physics 5. AP Gov Sem.1; AP Econ. Sem.2 6. AP Chemistry 7. Elect. or Senior Privilege 	<ol style="list-style-type: none"> 1. Hon. US Govt/Hon. Economics 2. AP Calc. AB or AP Statistics 3. AP English Language 4. AP Psychology 5. Elective 6. Elective 7. Elective or Senior Privilege 	<ol style="list-style-type: none"> 1. Hon. Eng. IV 2. Hon. Statistics 3. Hon. US Govt/Hon. Econ. 4. Hon. Marine 5. Elective-CAPE, AP, or AICE 6. Elective or grad. requirement 7. Elective or Senior Privilege

Math placement will depend upon the last math class taken. Students who would like to accelerate in math may take an extra math class as an elective.

World Language placement will depend upon aptitude and the previous world language class. Students with fluency in a language other than English will be encouraged to take language classes on the college level. Students may enroll in summer Dual Enrollment classes for advancement in technology and world languages.

INTRODUCTION

Mission: Don Soffer Aventura High School will provide a rigorous, college preparatory high school for the community that ensures each student develops their individual academic talents and leadership skills to become well-rounded citizens primed for excellence.

Vision: Don Soffer Aventura High School will continually adopt innovative instructional methods and technology designed for the digital native learning styles of 21st century students. The school will revolutionize instruction and be recognized as a pioneer in modern high school education.

Commitment: Learners at Don Soffer Aventura High School will discover purpose and engage in the most rigorous courses they can manage to maximize post-secondary opportunities.

CAMBRIDGE AICE AND ADVANCED PLACEMENT CAPSTONE DIPLOMAS

Cambridge Advanced International Certificate of Education Diploma: The Advanced International Certificate of Education (AICE) is an international diploma that students can earn via an advanced academic curriculum and assessment program written and administered by a non-profit department (CIE) of the University of Cambridge in England. Cambridge courses teach students to think independently, collaborate with peers, synthesize information, apply knowledge, and present logical, coherent, and persuasive arguments. The AICE Diploma requires that students earn seven credits in specified subject areas. Through earning an AICE Diploma and documenting 100 hours of community service, students qualify for the Florida Bright Futures Academic Scholars Scholarship.

Advanced Placement (AP) Capstone Diploma: AP Capstone is an innovative program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two courses, AP Seminar and AP Research, and is designed to complement and enhance the in-depth, discipline-specific study provided through other AP courses. The AP Capstone curriculum fosters inquiry, research, collaboration, and writing skills through the intensive investigation of topics from multiple perspectives. AP courses are rigorous and students are expected to have high academic expectations, be self-motivated and display good study habits. The AP Diploma requires students to earn scores of three on the five-point scale in AP Seminar and AP Research and on any four additional AP exams.

COURSE DESCRIPTIONS

The course descriptions in this program of study outline courses that may be offered at DSAHA. Based on student and parent input, academic needs, enrollment, and logistics, DSAHS will offer the most appropriate courses, and will update this document as changes are made.

AP CAPSTONE

ADVANCED PLACEMENT CAPSTONE SEMINAR, 170050001, Grades 10 and 11: In this foundational course, typically taken in grade 10 or 11, students develop and strengthen analytic and inquiry skills, exploring two to four relevant issues chosen by the student and/or teacher. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make

logical, fact-based decisions. Students will question, research, explore, pose solutions, develop argument, collaborate, and communicate using various media. Themes that allow for deep exploration based on student interests, local and/or civic issues, global or international topics, and concepts from other AP courses are typically selected. During the course, students complete a team project, an individual paper and presentation, and take a written final exam. The AP Seminar score is based on all three components. All students who take this course are required to take the AP Capstone Seminar Exam at the end of the year.

ADVANCED PLACEMENT CAPSTONE RESEARCH, 170051001, Grades 11 and 12, (Prerequisite, AP Capstone Seminar): The second course in the AP Capstone experience allows students to design, plan, and conduct a year-long research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further their skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information to build, present, and defend an argument. Students may choose to dig deeper into a topic studied in an AP course; work across academic areas with an interdisciplinary topic; study a new era of interest, perhaps one for further study at the college level. At the end of the research investigation, students submit an academic thesis paper of 5000 words, present their thesis, and orally defend their work. The AP Research Exam score is based on the paper, presentation, and defense, and is reported on the standard 1-5 AP scoring scale. All students who take this course are required to take the AP Capstone Research Exam at the end of the year.

ENGLISH/LANGUAGE ARTS

AICE ENGLISH LANGUAGE, AS LEVEL, 100155001: PREREQUISITE: AICE General Paper: The English Language AS Level course aims to develop ability to read and understand text in a variety of forms. Learners are encouraged to identify distinguishing features of writing and how they relate to text function and context. Emphasis is also placed on effective, creative, and accurate communication in English for different purposes and audiences. Students learn to make critical and informed responses to texts in a range of forms, contexts, and writing styles. The development of the interdependent skills of reading, analysis, and research is also emphasized. All students taking this course are required to take the AICE English Language AS Level Exam at the end of the year.

AICE ENGLISH LANGUAGE AND LITERATURE, AS LEVEL, 100155501: The Language and Literature in English syllabus aims to encourage an appreciation of literature in English – prose, poetry, and drama – of different types and from different cultures; and to develop the key skills required to read, analyze, and communicate effectively in English. All students taking this course are required to take the AICE English Language & Literature AS Level Exam at the end of the year.

AP ENGLISH LANGUAGE AND COMPOSITION, Grades 10, 11, 100142002: The purpose of this course is to provide students with an understanding of the semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. The course is also designed to provide students with a variety of writing opportunities calling for the use of different styles and tones. The content should include that determined by the College Board Advanced Placement Program. Written assignments totaling at least 12,000 words shall be a component for successful completion of this course. All students taking this course are required to take the AP English Language and Composition Exam at the end of the year.

AP ENGLISH LITERATURE AND COMPOSITION, Grade 12, 100143001: The purpose of this course is to involve students in the study and practice of writing and in the study of literature. Students should learn to use the modes of discourse and to recognize the assumptions underlying various rhetorical strategies. Students should also acquire an understanding of the resources of the language and an understanding of the writer's craft. They should develop critical standards for the appreciation of any literary work and increase their sensitivity to literature as shared experiences. The content should include that determined by the College Board Advanced Placement Program. Written assignments totaling at least 12, 000 words shall be a component for successful completion of this course. All students taking this course are required to take the AP English Literature & Composition Exam at the end of the year.

AICE GENERAL PAPER 1, AS LEVEL, 100936001: The Cambridge International AS Level General Paper encourages learners to develop a maturity of critical thought and argument, and a mastery of expression in the English language. These are all skills of great use for university level study. The syllabus draws on topics from across the school curriculum and learners can draw upon knowledge and understanding gained from study of other subjects. All students taking this course are required to take the AICE General Paper 1 AS Level Exam at the end of the year.

DEVELOPMENTAL LANGUAGE ARTS ESOL (READING) LEVEL 1, 2, 3, and 4: The purpose of these courses is to provide students, who are native speakers of languages other than English, instruction enabling students to accelerate the development of reading and writing skills and to strengthen these skills so they are able to successfully read, write, and comprehend grade level text independently. Instruction emphasized reading comprehension and vocabulary with a variety of literary and informational texts encompassing a broad range of text structures, genres, and levels of complexity. This course is an Elective credit and does not meet the graduation requirement for Language Arts.

ENGLISH 1 HONORS, Grade 9, 10001320: The purpose of this course is to provide grade 9 students, using texts of high complexity, advanced integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness. Honors and Advanced Level Course Note: Academic rigor is more than simply assigning to students a greater quantity of work. Through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted, students are challenged to think and collaborate critically on the content they are learning.

ENGLISH 1 THROUGH ESOL, Grade 9, 100230002: The purpose of this course is to enable students who are native speakers of languages other than English to develop proficient listening, reading, and writing skills in the English Language. Emphasis is on acquisition of integrated English communication skills in a wide range of content and activities using texts of high complexity to ensure college and career preparation and readiness.

ENGLISH 2 HONORS, Grade 10, 100135001: The purpose of this course is to promote academic excellence in English Language Arts through the study of world literature and through enriched experiences in composition/writing, speech, and listening skills. Honors and Advanced Level Course Note: Academic rigor is more than simply assigning to students a greater quantity of work. Through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted, students are challenged to think and collaborate critically on the content.

ENGLISH 2 THROUGH ESOL, Grade 10, 100231002: The purpose of this course is to enable students who are native speakers of languages other than English to develop proficient listening, speaking, reading, and writing skills in the English Language. Emphasis is on acquisition of integrated English communication skills in a wide range of content and activities using texts of high complexity to ensure college and career preparation and readiness.

ENGLISH 3 HONORS, Grade 11, 100138001: The purpose of this course is to promote academic excellence in English Language Arts through enriched experiences in reading, writing, speaking, and listening and to provide instruction in the study of American literature. Honors and Advanced Level Course Note: Academic rigor is more than simply assigning to students a greater quantity of work. Through the application, analysis, evaluation, and creation of complex ideas that are abstract and multi-faceted, students are challenged to think and collaborate critically on the content.

ENGLISH 3 THROUGH ESOL, Grade 11, 100232002: The purpose of this course is to enable students who are native speakers of languages other than English to develop proficient listening, speaking, reading, and writing skills in the English language. Emphasis will be on acquisition of integrated English communication skills in a wide range of content and activities using texts of high complexity to ensure college and career preparation and readiness.

ENGLISH 4 HONORS, Grade 12, 100141001: The purpose of this course is to promote academic excellence in English Language Arts through enriched experiences in communications skills and through instruction in British literature, as well as other world literature as a part of our literary heritage. Honors and Advanced Level Course Note: Academic rigor is more than simply assigning to students a greater quantity of work. Through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted, students are challenged to think and collaborate critically.

ENGLISH 4 THROUGH ESOL, Grade 12, 100252002: The purpose of this course is to enable students who are native speakers of languages other than English to develop proficient listening, speaking, reading, and writing skills in the English Language. Emphasis is on acquisition of integrated English communication skills in a wide range of content and activities using texts of high complexity to ensure college and career preparation and readiness.

INTENSIVE READING, 10004101: The purpose of this course is to provide intensive instruction and practice in reading skills for students two or more years below grade level in reading. This course is an Elective credit and does not meet the graduation requirement for Language Arts.

MATHEMATICS AND THINKING SKILLS

AICE THINKING SKILLS 1, AS LEVEL, 170037201: AICE Thinking Skills 1 focuses on the development of problem solving, critical thinking and reasoning skills rather than specific course content. Students learn to analyze and construct rational arguments and to defend them with logical reasoning. Students apply these skills to solve real-world problems, using logic, numbers, graphs, and models, and learn to use sound judgment. Strategies learned are transferable to other subject areas. All students who take this course are required to take the AICE Thinking Skills AS Level Exam at the end of the year. Note: This is an advanced class in which students will be required to make informed, rational decisions and construct compelling arguments on a college level.

ADVANCED PLACEMENT CALCULUS AB, 120231001: Calculus is abstract in its content and designed for those who wish to study mathematics, science, or engineering in college. The course is equivalent in content to four or six college credit hours in Calculus. The course will include a study of limits, differentiation and applications of differentiation, integration and applications of integration and inverse functions. All students taking this course are required to take the AP Calculus AB Exam at the end of the year.

ADVANCED PLACEMENT CALCULUS BC, 120232001: The purpose of this course is to provide an extensive study of the general theory and techniques of calculus. The course is equivalent in content to four or six college credit hours in Calculus. The content should include the topics determined by the Advanced Placement Program. All students taking this course are required to take the AP Calculus BC Exam at the end of the year.

ADVANCED PLACEMENT STATISTICS, 121032001: The purpose of this course 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; observing patterns and departures from patterns; planning a study; deciding what and how to measure; anticipating statistical inference; and confirming models. AP Statistics is an excellent option for any student who has successfully completed a second-year course in Algebra (Algebra 2), regardless of the student's intended college major. All students taking this course are required to take the AP Statistics Exam at the end of the year.

ALGEBRA I HONORS, 120032001: Algebra I Honors is a rigorous course designed to develop these algebraic skills: perform set operations, use fundamental concepts of logic including Venn diagrams, describe the concept of a function, use function notation, solve real-world problems involving relations and functions, determine the domain and range of relations and functions, simplify algebraic expressions, solve linear and literal equations, solve and graph simple and compound inequalities, solve linear equations and inequalities in real-world situations, rewrite equations of a line into slope-intercept form and standard form, graph a line given any variation of information, determine the slope, x- and y-intercepts of a line given its graph, its equation or two points on the line, write an equation of a line given any variation of information, determine a line of best fit and recognize the slope as the rate of change, factor polynomial expressions, perform operations with polynomials, simplify and solve algebraic ratios and proportions, simplify and perform operations with radical and rational expressions, simplify complex fractions, solve rational equations including situations involving mixture, distance, work and interest, solve and graph absolute value equations and inequalities, graph systems of linear equations and inequalities in two and three variables and quadratic functions, and use varied solution strategies for quadratic equations and for systems of linear equations and inequalities in two and three variables.

ALGEBRA 2, 120033001: The purpose of this course is to continue the study of the structure of algebra and to provide the foundation for applying these skills to other mathematical and scientific fields. Topics shall include, but not be limited to, the review and extension of the structure and properties of the real number system; relations, functions, and graphs; polynomials and rational expressions; quadratic equations and inequalities; polynomial functions; rational and irrational exponents; logarithms; complex numbers; and problem solving.

ALGEBRA 2 HONORS, 120034001: The purpose of this course is to present an in-depth study of the topics of Algebra 2 with emphasis on theory, proof, and development of formulas, as well as their applications. Topics include algebraic structure; first-degree equations in one and two variables

solved algebraically and graphically; systems of equations and inequalities; functions and relations; polynomials and rational expressions; exponents, radicals and logarithms; complex numbers; conic sections; polynomial equations; sequences and series; permutations, combinations and probability; and matrices.

GEOMETRY HONORS, 120632001: Geometry Honors is a rigorous course designed to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematics problems. The content will include, but not be limited to, geometric constructions, terminology and fundamental properties of geometry, deductive and inductive reasoning and their application to formal and informal proof, formulas pertaining to the measurement of plane and solid figures, coordinate geometry and transformations on the coordinate plane, explorations of geometric relationships such as parallelism, perpendicularity, congruence, and similarity, properties of circles, and right triangle trigonometry. **NOTE: Students completing this course will be required to take the State of Florida Geometry End-of Course Exam.**

INTENSIVE MATHEMATICS (GRADE 9 INTENSIVE ALGEBRA 1), 120040009: This elective course is designed to assist students with content mastery of Algebra 1 and Geometry topics and provide additional standards reinforcement in preparation for the Algebra 1 End-of-Course Exam.

INTENSIVE MATHEMATICS (GRADE 10 INTENSIVE GEOMETRY & ALGEBRA 1 Review), 120040010: The purpose of this elective course is to enhance skills for algebra and geometry. Content shall include, but not be limited to concepts involving algebraic thinking, number sense, measurement, geometry, and spatial sense, as well as data and probability. This elective course is designed to assist those students who need to retake the Algebra 1 EOC for content mastery of Algebra 1 and Geometry topics. This course can be repeated.

PRE-CALCULUS HONORS, 120234002: The purpose of this course is to emphasize the study of functions and these topics in preparation for success in AP Calculus AB: polynomial, rational exponential, logarithmic, circular functions and their inversions; sequences; series; theory of limits; vectors; conic sections; polar coordinates; symbolic logic; mathematical induction; and matrix algebra.

SCIENCE

AICE ENVIRONMENTAL MANAGEMENT, 2001381: Students develop scientific knowledge and understanding of the global environmental issues and theories, and of the policies and strategies for managing the environment. The course covers sustainable use and management of resources and strategies that aim to protect environments. Learners will interpret and analyze data and do investigative work. Case studies allow teachers to choose their examples to investigate, which may be local, regional, and global.

AICE MARINE SCIENCE 1, AS LEVEL, 200251501: AICE Marine Science 1 introduces students to the study of marine environments, focusing on ocean life and all the systems that support it. Students acquire an understanding of how ecosystems are inter-dependent while learning practical skills of analysis, critical thinking, and problem-solving strategies. Students develop a solid foundation of knowledge that can be applied in hands-on activities throughout this course, and at the A level. All students taking this course take the AICE Marine Science 1 Exam at the end of the year.

AP BIOLOGY, 20034003, (Prerequisite, Biology): This purpose of this course is to provide a study of the facts, principles, and processes of biology, and the collection, interpretation, and formulation of hypotheses from available data. Laboratory investigations of selected topics in the content include the use of the scientific method, measurement, laboratory apparatus, and safety procedures are integral parts of this course. The content should include that which is determined by the Advanced Placement Program. All students taking this course are required to take the AP Biology Exam at the end of the year.

AP CHEMISTRY, 200337001, (PREREQUISITE, CHEMISTRY): The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year in college. It provides an in-depth understanding of fundamentals and a reasonable competence in dealing with chemical problems. Topics, such as chemical equilibria, kinetic theory of gases, chemical kinetics, and the basic mathematical formulation of principles and concepts will be covered. Laboratory investigations of selected topics in the content are an integral part of the course. All students taking this course take the AP Chemistry Exam at the end of the year.

AP ENVIRONMENTAL SCIENCE, 2001380: This course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

BIOLOGY I HONORS, 2000320: While the content focus of this course is consistent with the Biology I course, students will explore these concepts in greater depth. In general, the academic pace and rigor will be greatly increased for honors level course work. 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. 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.

BIOMEDICAL INNOVATION/LEVEL 3 HONORS (Prerequisite, Medical Interventions) - This course is the final course for certification in Biomedical Science.

CHEMISTRY I, 200334001: Chemistry I will provide students with an opportunity to study the composition, properties and changes associated with matter. Topics will include but not be limited to heat, changes of matter, atomic structure, bonding, the periodic tables, formulas, equations, mole concept, gas laws, reactions, solutions, equilibrium systems, and oxidation reduction reactions. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety procedures are an integral part of this course. The course includes the use of mathematical processes, graphical representation, and data analysis.

CHEMISTRY I HONORS, 200335001: Chemistry I Honors will provide students with an opportunity to study the composition, properties and changes associated with matter in great depth. Topics will include but not be limited to heat, changes of matter, atomic structure, bonding, the periodic tables,

formulas, equations, mole concept, gas laws, reactions, solutions, equilibrium systems, and oxidation reduction reactions. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety procedures are an integral part of this course. The course includes the use of mathematical processes, graphical representation, and data analysis.

MARINE SCIENCE 1 HONORS: 2002510: The purpose of this course is to provide an advanced overview of the unique characteristics of the marine environment by exploring the physical and biological characteristics of seawater. Topics will include the ocean's present and potential resources, marine biology interactions with technology and society, and interrelationships between man and the ocean environment. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course. The Common Core State Standards (CCSS) for literacy are infused through instructional practices that ensure reading from a wide range of informational texts and provide extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.

MEDICAL INTERVENTIONS/LEVEL 3 HONORS, 870813002, (Prerequisite, Human Body Systems): This course is the 3rd course in the 4-course sequence for certification in Biomedical Science.

PHYSICAL SCIENCE HONORS, 200332001, (Prerequisite, Biology): This course will explore 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. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data.

SOCIAL STUDIES

AICE BUSINESS, AS LEVEL, 210232401, Grades 10-12: This course enables students to understand the role of business in society. It encourages students to examine the process of decision making in a dynamic business environment and to develop critical understanding of business organizations. Students learn about the business environment, human resource management, marketing, operations, finance, and accounting.

AICE GLOBAL PERSPECTIVES AND INDEPENDENT RESEARCH 1, AS LEVEL, 170036401: This college level course introduces students to the challenge of thinking critically and independently as they research and debate current topics. Rather than to present specific content, this course allows students to develop skills of analysis, evaluation, comparison, and synthesis that can be applied to complex, real-world situations. Students learn a process that involves analyzing disparate arguments and points of view and drawing reasoned conclusions based on this analysis. The course brings up issues of global importance and encourages engagement and reflection on their own.

AICE INTERNATIONAL HISTORY 1 AS LEVEL, 210049001, Grade 10: The emphasis of this course is on both historical knowledge and on the skills required for historical research. Learners develop an understanding of cause and effect, continuity and change, similarity and difference, and use historical evidence as part of their studies. The flexible and wide-ranging course encourages the study of international history from 1945 to 1991. Learners can also study periods from European, Asian, African, and American History. All students who take this course are required to take the AICE International History AS Level Exam at the end of the year.

AICE LAW, AS LEVEL, 210647001, Grades 10-12: This course encourages students to appreciate law in real-world situations through an understanding of the main principles of the law of England and Wales, principles that are fundamental to the USA legal system. Students develop analysis and problem-solving skills and learn to communicate legal argument. They study the English legal system, criminal law, and law of contract and tort. This syllabus builds an excellent foundation for further study of Law in higher education and/or a career within the field.

AICE SOCIOLOGY, AS LEVEL, 210831001, Grades 10-12: In a rapidly changing world, this course offers learners the opportunity not only to explore the processes that are shaping current trends, but also to develop an understanding of the complexity and diversity of human societies and their continuities with the past. The study of sociology stimulates awareness of contemporary social, cultural and political issues, and focuses on the importance of examining these issues in a rigorous, reasoned and analytical way.

AICE TRAVEL & TOURISM 1 AS LEVEL, 2102410: Cambridge International AS Level Travel and Tourism is ideal for those seeking to specialize in this subject. The course encourages learners to appreciate the changing nature of travel and tourism and understand the importance of sustainability in the development and management of industry. The aim is to understand the concepts and theories in travel and tourism and recognize their impact on people, environment, and economies.

AP MACROECONOMICS, 210237001, Grade 12: The purpose of AP Macroeconomics is to provide students with the opportunity to analyze the functioning of the economy as a whole, including total output and income, level of employment, level of prices, and the determinants of aggregate supply and demand. Specific content to be covered will include an understanding of fundamental economic concepts including scarcity, opportunity costs and trade-offs, productivity, economic systems and institution, money, and interdependence. The analysis of macroeconomic concepts includes gross national product, aggregate supply and demand, unemployment, inflation and deflation, monetary policy, fiscal policy, and international economics. This semester course is paired with AP US Government and Politics. All students who take this course are required to take the AP Macroeconomics Exam at the end of the year. This semester course meets the graduation requirement for Economics.

AP US GOVERNMENT AND POLITICS, 210642001, Grade 12: The purpose of this semester course is to provide students with the opportunity to acquire a comprehensive understanding of American government and political behavior. Content will include an evaluation of those documents which shape our political traditions, an analysis of the roles of the three branches of government at the local, state, and national levels, a comparative view of the changing nature of political parties and interest groups over time in determining government policy, an evaluation of the changing nature of citizen rights and responsibilities in a democratic state, and the importance of civic participation in the democratic political process. This semester course is paired with AP Macroeconomics. All students who take this course are required to take the AP US Government Exam at the end of the year. This semester course meets the graduation requirement for US Government.

AP US HISTORY, 210033001, Grade 11: The purpose of this course is to 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. This is done by focusing on persistent themes and change in history and by applying historical reasoning to seek solutions to contemporary problems.

ECONOMICS HONORS, 210232003, 0.5, Grade 12: This semester 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 system. Content should include currency, banking, and monetary policy, the fundamental concepts relevant to the major economic system, 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. This course is paired with US Government Honors.

UNITED STATES GOVERNMENT HONORS, 210632001, Grade 12: The purpose of this semester course is to provide students with the opportunity to acquire a comprehensive understanding of American government and political behavior. Specific content to be covered includes an evaluation of those documents which shape our political traditions (the Declaration of Independence, The Constitution, and the Bill of Rights), an analysis of the roles of the three branches of government at the local, state, and national levels; a comparative view of the changing nature of political parties and interest groups over time in determining government policy; an evaluation of the changing nature of citizen rights and responsibilities in a democratic state. This course is paired with Economics Honors.

UNITED STATES HISTORY HONORS, 210032001, Grade 11: The purpose of this course is to provide students with the opportunity to acquire a comprehensive understanding of the chronological development of the United States by examining the political, economic, social, religious, military, scientific, and cultural events that have affected our nation. Content will include analysis of significant trends in the development of American culture and institutions, evaluation of westward expansion, origin and colonial experience, analysis of the Declaration of Independence, US Constitution and Bill of Rights, analyses of sectionalism and origin, course and aftermath of the Civil War, comparisons of the technological and urban transformations, interpretations on changes in lifestyles, analysis of changes in foreign policy from regional to global, evaluation of characteristics of the economy, analysis of contemporary, domestic, and foreign issues.

WORLD HISTORY HONORS, 210932001, Grade 10: The purpose of this course is to provide students the opportunity to acquire a comprehensive understanding of the past in terms of change or process as related to the development of humanity. This is done by analyzing the political, economic, social, religious, military, dynastic, scientific, and cultural events that have shaped and molded humanity. This course is required for graduation.

PERFORMING AND FINE ARTS

ACTING 1 & 2, 040037001 & 040038001: These courses develop the acting skills of the student. Students examine the various dimensions of characters through analysis, discussion, and classroom performances, working with scripts from a variety of time periods and cultures. They learn to break down a scene from a character's point of view and learn to sustain a character and build the relationship between actor and audience. 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.

AICE DRAMA AS and A LEVEL, 040034601 and 040034701: AICE Drama encourages students to explore a range of practical and theoretical approaches to drama from script to performance. The course encourages students to develop the ability to apply practical skills effectively and to analyze and evaluate both their own work and the work of others.

AICE MEDIA STUDIES AS LEVEL (Introductory), 110046001; and A LEVEL (Advanced), 110047001: The purpose of this college level course is to reinforce the development of language skills for both oral and written communication. Content emphasis focuses on further development of grammar, reading, and writing skills, as well as cultural awareness through selected readings. All students taking this course are required to take the AICE Media Studies Exam at the end of the year. Note: This is an advanced class in which students will be required to make informed, rational decisions and complete rigorous work on a college level.

AP 2D ART AND DESIGN, 0109350, (Teacher approval required): This portfolio is designated for work that focuses on the use of two-dimensional (2-D) elements and principles of art and design, including point, line, shape, plane, layer, form, space, texture, color, value, opacity, transparency, time, unity, variety, rhythm, movement, proportion, scale, balance, emphasis, contrast, repetition, figure/ground relationship, connection, juxtaposition, and hierarchy. Students should consider how materials, processes, and ideas can be used to make work that exists on a flat surface. Students can work with any materials, processes, and ideas. Graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting, and printmaking are among the possibilities for submission. Still images from videos or film are accepted. Composite images may be submitted.

MUSICAL THEATRE 1, 2, and 3: 0400700: These courses provide a continuation to a student's knowledge about all aspects, roles, and careers associated with the film and entertainment industries. Major content includes an overview of the many facets of television, film, and entertainment production, as well as the technical support needed to produce and display the various types of theatre, dance, visual arts, and music. There will also be a focus on individual areas or industries, such as: commercial production, fashion photography, television film, animation, graphic design, costume design, as well as lighting and sound design.

MUSIC THEORY, 1300300: This Music Theory introductory course is designed to enhance music skills and basic music fundamentals. The essential aspects of melody, harmony, rhythm, and form are studied.

PAINTING 1, 010437001: Students experiment with the media and techniques used to create a variety of 2-D artworks through the development of skills in painting.

TWO-DIMENSIONAL STUDIO ART 2, 010121001: Students develop and refine technical skills and create 2-D compositions with a variety of media in drawing, painting, printmaking, collage, and/or design. Student sketch, manipulate, and refine the structural elements of art to improve mark-making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their art.

PHYSICAL EDUCATION

AICE PHYSICAL EDUCATION 1 AS LEVEL, 302602001: The Physical Education AS Level course is both practical and theoretical, covering anatomy and physiology, movement skills and contemporary studies in sport. Learners are encouraged to try out a range of physical activities, including team and individual sports, games, and outdoor activities, leading to the development of a plan for improved performance in an activity. All students who take this course are required to take the AICE Physical Education AS Level Exam at the end of the year. Note: This is an advanced class in which students will be required to make informed, rational decisions and complete rigorous work on a college level.

PERSONAL FITNESS/FITNESS ISSUES FOR ADOLESCENCE, 150130001/150132001, Grades 9-12: The purpose of this course is to provide 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. This is the only course that satisfies the state minimum requirement of one semester of Physical Education in Personal Fitness. This semester course is paired with Fitness Issues for Adolescents develops and enhances healthy behaviors that influence lifestyle choices and student health and fitness. Students will combine the learning of principles and background information in a classroom setting with physical application of the knowledge. A majority of class time should be spent in physical activity.

TEAM SPORTS: 1503350 / TEAM SPORTS 2, 150336001, Grades 10-12: 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.

WEIGHT TRAINING 1/WEIGHT TRAINING 2, 1501340, Grades 10-12: The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement as it relates to weight training. The integration of fitness concepts is critical to the success of this course.

WORLD LANGUAGES

AICE SPANISH LANGUAGE AS LEVEL, 070853801: Cambridge International AS Level Spanish is the ideal foundation for university-level study, or to improve career prospects. Learners will gain an understanding of how to use the language in a variety of situations. They will be expected to handle texts and other source materials, extracting information in order to respond to specific tasks. Through their studies, learners can expect to achieve greater fluency, accuracy and confidence in the language. All students who take this course are required to take the AICE Spanish Language AS Level Exam at the end of the year. Note: This is an advanced class in which students will be required to make informed, rational decisions and complete rigorous work on a college level.

AICE SPANISH LITERATURE AS LEVEL, 070854001, (Prerequisite, AICE Spanish Language AS): Learners following the Cambridge International AS Level Spanish course will study a series of works from Spanish literature. The aim is to understand these texts and the issues raised by the authors, and to develop the skills to communicate this understanding in a clear and focused way. Learners will study a variety of texts, including novels, poems and plays, looking both at the way the authors have conveyed their ideas, and discussing the wider issues that each text raises. All students who take this course are required to take the AICE Spanish Literature AS Level Exam at the end of the

year. Note: This is an advanced class in which students will be required to make informed, rational decisions and complete rigorous work on a college level.

AP SPANISH LANGUAGE AND CULTURE, 070840001: AP Spanish Language and Culture is equivalent to 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.

AP SPANISH LITERATURE, 070841001: AP English Literature and Composition is 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.

AMERICAN SIGN LANGUAGE 1, 071730001: American Sign Language 1 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 with introductions to culture, connections, comparisons, and communities.

AMERICAN SIGN LANGUAGE 2, 071731001: This course reinforces the fundamental skills acquired by the students in American Sign Language 1. The course develops increased receptive and expressive, skills as well as cultural awareness. Specific content to be covered is a continuation of skills acquired in American Sign Language 1 while communication remains the primary objective. The cultural survey of the target language is continued.

AMERICAN SIGN LANGUAGE 3 HONORS, 071731201: American Sign Language 3 provides mastery and expansion of skills acquired by the students in American Sign Language 2. Specific content includes, but is not limited to, expansions of vocabulary and conversational skills through discussions of selected media. Contemporary vocabulary stresses activities which are important to the everyday life of people using the target language.

SPANISH 1, 070834001: Spanish 1 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.

SPANISH 2, 070835001: Spanish 2 reinforces the fundamental skills acquired by students in Spanish I. 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 Spanish I. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

SPANISH 3 Honors, 0708360101: Spanish 3 provides mastery and expansion of skills acquired by the students in Spanish 2. Specific content includes, but is not limited to, expansions of vocabulary and conversational skills through discussions of selected readings. Contemporary vocabulary stresses activities which are important to the everyday life of the target language-speaking people.

TECHNOLOGY

AP COMPUTER SCIENCE PRINCIPLES, 020033502: This course will be offered to students in a school computer lab through an online provider. The content offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, internet cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

DIGITAL ART 3 HONORS, TOONBOOM, 090839001: Students earn ToonBoom Industry Certification as they explore advanced topics through project-based work, becoming more self-directed in their acquisition and use of concepts, terminology, techniques, and applications to design, create, print, and display original two-dimensional graphic and fine works of art in print and web formats. As they become more adept at using the tools and techniques available to them, students design and produce digital still images through the single or combined use of computers, digital cameras, scanners, photo editing software, drawing and painting software, graphic tablets, printers, new media, and emerging technologies.

DIGITAL DESIGN 1/LEVEL 3, HONORS, 820951002, (Prerequisite, Digital Information Technology): This course is designed to develop entry-level skills required for careers in digital design. The content includes computer skills; digital publishing concepts and operations; layout, design, and measurement activities; digital imaging; communication, collaboration, and decision-making activities; critical thinking and problem-solving. This course also serves as the second course of a four-course progression leading to a Vocational Gold Seal Diploma. This course also meets the Performing Arts requirement for graduation.

DIGITAL DESIGN 2/LEVEL 3 HONORS, 820952001, (Prerequisite, Digital Design 1): This course continues the development of basic entry-level skills required for careers in the digital publishing industry. The content should include computer skills; digital operations; layout, design, and measurement activities; decision-making activities; and digital imaging. This course also serves as the third course of a four-course progression leading to a Vocational Gold Seal Diploma. This course also meets the Performing Arts requirement for graduation.

DIGITAL DESIGN 3 HONORS, 820953001; (Prerequisite, Digital Design 2): This course continues the development of industry-standard skills required for careers in the digital publishing industry. The content includes the use of a variety of software and equipment to perform digital publishing and digital imaging activities. This course also serves as the fourth course of a four-course progression leading to a Vocational Gold Seal Diploma. This course also meets the Performing Arts requirement for graduation.

DIGITAL INFORMATION TECHNOLOGY, 820731002, Grades: 9-12: This course is designed to introduce information technology concepts and careers, as well as the impact information technology has on the world, people, and industry and basic web design concepts. The content includes information technology career research; operating systems and software applications; electronic communications including email and internet services; basic HTML, DHTML, and XML commands; emerging technologies; and web page design. This course also serves as the introductory

course for a four-course progression leading to a Vocational Gold Seal Diploma. This course also meets the Performing Arts requirement for graduation.

GAMING AND SIMULATION PROGRAMMING, 8208110: This program offers a sequence of project-based courses that provide 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 Information Technology career cluster such as Game or Simulation Designer, Game or Simulation Graphic Artist, and Game or Simulation 3-D Animator; 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 Information Technology career cluster. The content includes but is not limited to practical experiences in game/simulation conceptualization, design, storyboarding, development methodologies, 2D/3D animation design and production, and implementation issues. Specialized skills involving graphic animation software are used to produce a variety of two and three-dimensional components.