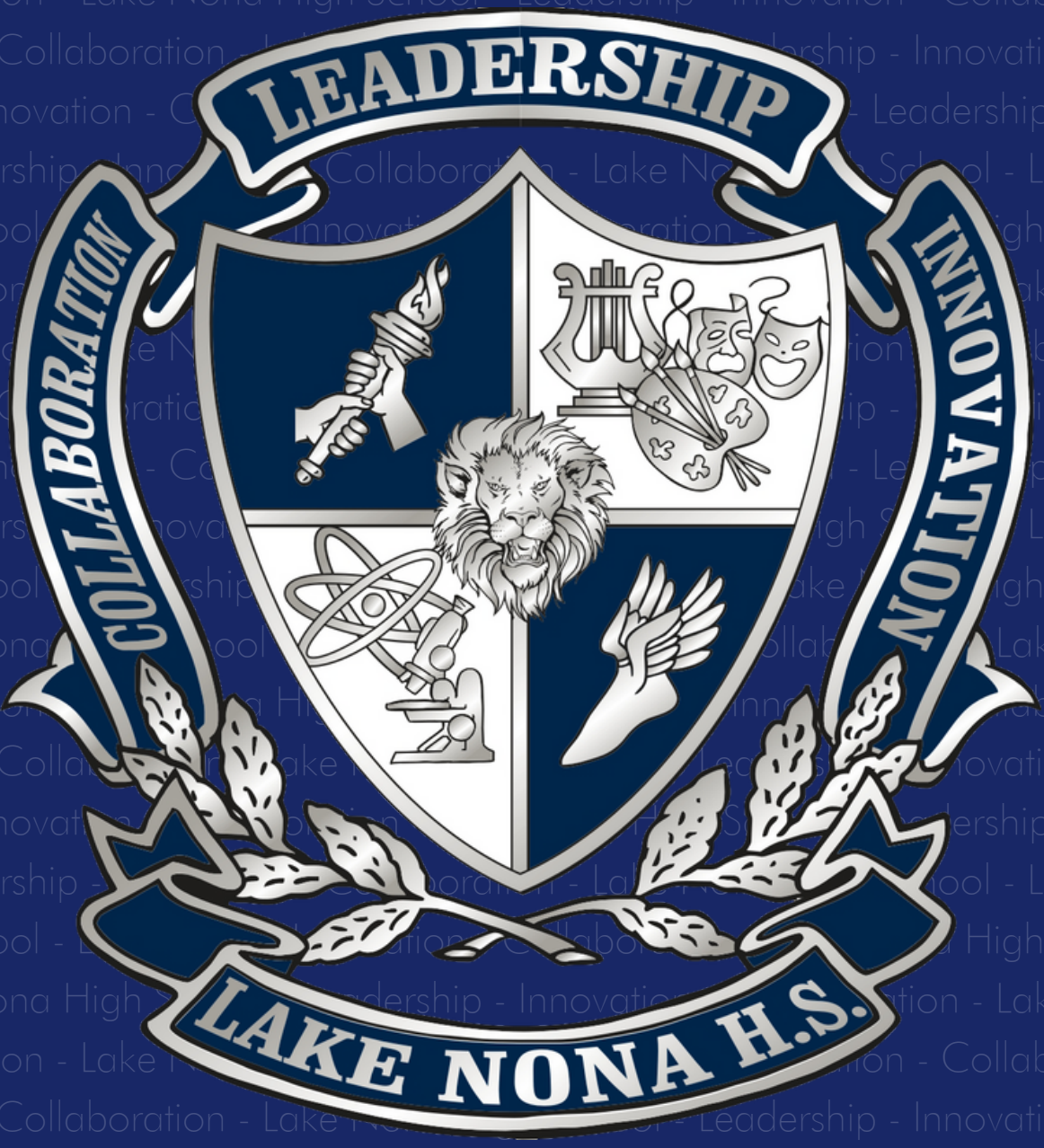
# Lake Nona High School




## Curriculum Guide

## 2023 - 2024

# VISION

To ensure every student has a promising and successful future.

# MISSION STATEMENT

With the support of families and the community, we create enriching and diverse pathways that lead our students to success.

# COLLEGE & CAREER PLANNING

In completing their postsecondary education plans, students may find it advisable to complete one or more of the standardized tests listed below which are used for college admissions, career planning, placement in college courses, and/ or eligibility for scholarships. Recommended grade levels during which tests should be taken are shown in parenthesis ( ).

ACT: American College Testing Program (11, 12)
www.act.org
ASVAB: Armed Services Vocational Aptitude Battery (11, 12)
PSAT: Preliminary SAT (10, 11)
SAT I: Reasoning Test – formerly the Scholastic Assessment Test (11, 12)
www.collegeboard.com
SAT II: Subject Tests – formerly the Scholastic Assessment Test (11, 12)
www.collegeboard.com
PERT: Postsecondary Education Readiness Test (9-11)

*Students should see their school counselor or college and career specialists for further information about the tests that would be most appropriate for meeting their needs. Some tests require the completion of an online registration form several weeks in advance of the test date*

# GRADUATION REQUIREMENTS

*According to Florida law, students must meet certain academic requirements to earn a standard high school diploma from a public school. This means that students must pass required courses, earn a minimum number of credits, earn a minimum grade point average, and pass the required statewide assessments. Students who meet these requirements but do not pass the required assessments will receive a certificate of completion, which is not equivalent to a standard high school diploma. Passing scores for the statewide assessments are determined by the State Board of Education.*

**Please visit the FLDOE website for Standard Diploma Requirements**

# DIPLOMA DESIGNATIONS

In addition to the standard diploma, students have the opportunity to graduate with a diploma designation. In order to receive either designation, students must fulfill standard high school graduation requirements and the following:

**Scholar Designation**
- Algebra 2
- Statistics or equally rigorous course
- Pass the Geometry, Biology, and U.S. History EOC
- Chemistry or Physics
- Course equally rigorous to chemistry or physics
- Earn 2 credits in the same world language
- Earn at least 1 credit in Advanced Placement (AP) or Dual Enrollment (DE) course Merit Diploma
- Attain one or more industry certifications from the list established

**Biliteracy Seal**
The Seal of Biliteracy is an award given by the state in recognition of students who have studied and attained proficiency in two or more languages by high school graduation

**Gold Bilingual Seal**
The Gold Seal of Biliteracy is awarded to students who:
- complete four years of a foreign language
- maintain a 3.0 GPA in the target language
- score a level 4 or higher on the Advanced Placement Exam
- score a level 4 or higher on the 10th Grade ELA FSA

**Silver Bilingual Seal**
The Silver Seal of Biliteracy is awarded to students who:
- complete four years of a foreign language
- maintain a 3.0 GPA in the target language
- score a level 3 or higher on the Advanced Placement Exam
- score a level 3 or higher on the 10th Grade ELA FSA

# OCPS COURSE EXAMINATION POLICIES

The examination policies below apply to secondary (Grades 6-12) courses as well as CTE courses. Calculations of student final grades for all courses in Orange County Public Schools fall into one of three categories with different grading rules. Below is a description of these categories of courses and the grading policies that are applied to each.

**Group 1: Courses Associated with Statewide EOC Assessments**

These courses are associated with statewide EOC assessments in Algebra I, Geometry, Biology, US History, and Civics. No additional teacher, school or district semester or final examination may be administered in these courses, and the district calculates a student's EOC grade from the scale score on the statewide EOC. The grade calculation is as follows:

**35% Semester 1 Grade + 35% Semester 2 Grade + 30% Statewide EOC Grade = Student Final Course Grade**

**Group 2: Courses Associated w/ National & Other Statewide Assessments/Blended Courses**

These courses are associated with national assessments (such as AP and IB assessments) and other statewide assessments (such as FSA grade level assessments and PERT assessments) or blended courses. No additional teacher, school or district semester or final examination may be administered for the course. The grade calculation is as follows:

**50% Semester 1 Grade + 50% Semester 2 Grade = Student Final Course Grade**

**Group 3: Courses Associated with Common Final Exams**

These courses are associated with the assessments we refer to as Common Final Exams (CFEs). The CFEs are linked to all courses offered on the OCPS Course Code Directory that do not fall into the other two categories. No additional teacher, school or district semester or final examination may be administered for these courses. There are two grade calculation methods depending on whether or not the course is a full year or semester course.

Full Year Courses:

**40% Semester 1 Grade + 40% Semester 2 Grade + 20% CFE = Student Final Course Grade**

Semester Courses:

**40% Quarter 1 Grade + 40% Quarter 2 Grade + 20% CFE = Student Final Course Grade**

# INFORMATION ON ACADEMICS

**Academic Integrity: Plagiarism and Cheating**

In *A Nation at Risk* there is a special note to students that reads, "You forfeit your chance for life at its fullest when you withhold your best effort in learning. When you give only the minimum to learning, you receive only the minimum in return. Even with your parents' best example and your teachers' best effort, in the end, it is your work that determines how much and how well you learn". This also applies when students plagiarize the work of others, submit another's work as their own, or take answers from other students. Downloading term papers or essays from the Internet and submitting them as your own work is illegal and dishonest. Students who are caught cheating and/or plagiarizing will receive no credit for the work submitted and will be subject to disciplinary action. This may make the student ineligible for membership in student honor societies and clubs. Students who are already members of these organizations may be removed as members.

**Grading Scale**

**A**
90 – 100
**B**
80 – 89
**C**
70 – 79
**D**
60 – 69
**F**
0 – 59

**Promotion Criteria**

**Freshman**
0.0 – 6.0 credits
**Sophomore**
6.0 – 12.0 credits
**Junior**
13.0 - 12.5 credits
**Senior**
17.0 - 24.0 credits

All freshmen, sophomores, and juniors are scheduled into 7 classes. It is *not* recommended for seniors to take less than 7 courses; however some seniors who are on track for **all** graduation requirements including having a passing FSA ELA score (or passing concordant score), Algebra 1 EOC score (or concordant PERT score), credit requirements (minimum of 17 credits *in the respective subject areas*), have a minimum 2.0 unweighted GPA, and successfully completed an accelerated career and college readiness opportunity within 9ththrough 11th grade may wish to opt for 6 period day This request must be made prior to the start of school and before schedules are finalized. Dropping classes from students' schedules or switching classes will not be permitted for any students in all grade levels after the add/drop period has ended in the first week of school.

## Grade Forgiveness

Under State policy, students who receive a final grade of D or F in a class may retake the class to improve their grade with a grade of C or higher earned subsequently in the same or comparable course. The new, higher grade (C or better) will replace the D or F in the GPA. However, the D or F will remain on the student's transcript. Students have the option to retake such class through an online course or for some specific classes through an online credit recovery program. The forgiveness policy for elective courses is limited to replacing a grade of D or F with a grade of C or higher earned subsequently in another course. The only exception to the forgiveness policy stated above applies to middle school students who take any high school course. In this case, forgiveness can be applied to courses with a final grade of C, D, or F.

## Parent / Teacher Communications

If a student is experiencing a problem in a course, the best solution comes from direct communication between the parent, student, and teacher. Please call or email the teacher with your concerns and allow at least 48 hours for a response. E-mail addresses can be found on the school website. You may also arrange for a conference with a school counselor and your student's teachers by contacting Student Services at 407-956-8300.

## Accelerated Career and College Readiness

Students in grades 9-12 will be scheduled into at least one accelerated career and college readiness opportunity each year. Courses leading to Career and College Readiness provide students with the opportunity to participate in advanced high school coursework which will prepare them for success in college, university, and beyond; courses leading to industry certification directly prepare students for post-secondary career opportunities in various industries.

## Add/Drop Policy

During the first week of school an add/drop period in which students are able to request classes be added or removed from their schedule is opened. After the add/drop period closes, requests for schedule changes and to remove courses from their schedules will not be accepted. If your child is struggling in a class, please contact their teacher or call 407-956-8300 to schedule a parent-teacher conference. Exceptions will be considered for students requesting to be removed from an advanced level course to a lower level, for example, from an AP level to an Honors or from an Honors level to a Regular. The replacement course must be an on-campus course. Students requesting to drop a rigorous course will be required to have demonstrated efforts to be successful including each of the following:

1. No missing assignments in the course requesting to drop
2. Attended at least 5 tutoring sessions
3. A Parent-Teacher Conference including the Parent, Teacher, and Student Students will not be removed from on-campus courses for an OCVS or FLVS course once the add/drop period ends.

## Intensive Reading

In order to support student success in Reading, students in grades 9 through 12 who have not passed their FSA ELA or earned a concordant score (11th/12th), will be scheduled into an Intensive Reading class. The purpose of the Intensive Reading class is to support students in gaining the skills and knowledge necessary to be successful in passing the FSA ELA. Juniors and Seniors who earn a concordant score prior to the end of the first semester will be provided the opportunity to move into an available elective at the start of the second semester. If the student chooses to remain in a reading class, they will be allowed to do so. Students who earn a concordant score in the second semester will remain scheduled in reading through the end of the school year.

# RIGOROUS ACADEMICS

**Academic Dual Enrollment (DE)**
Dual enrollment is an articulated acceleration mechanism authorized under Florida Statute.

**Admission**
You must meet both GPA and testing requirements to be admitted to Dual Enrollment (DE): Dual Enrollment application(s) are available at the following participating Colleges and Universities:
Valencia - http://valenciacollege.edu/dual
University of Florida - http://dualenrollment.dce.ufl.edu/
University of Central Florida - https://admissions.ucf.edu/dual-enrollment-and-early-admission/
Orange Technical College Application- please contact our CTE Specialist at Luann.Fayard@ocps.net
*The application and qualifying assessment scores must be received by the deadline set by the institution.*

**Advanced Placement (AP)**
Advanced Placement (AP) is an acceleration opportunity administered by the College Board providing college level instruction in high school. Postsecondary credit for an AP course may be awarded to students who earn a minimum of a 3 on a 5-point scale on the corresponding
AP exam. OCPS is dedicated to ensuring equitable access by giving all willing and academically prepared students the opportunity to participate in AP courses. Only through a commitment to equitable preparation and access can true equity and excellence be achieved.

**Career and Technical Education (CTE)**
Students completing specific Career and Technical Education (CTE) programs can earn postsecondary credit to enable them to continue postsecondary education. The following options explain how students may maximize their high school CTE course work. For additional information, students should contact the CTE Specialist or visit orangetechcollege.net.

**Career Dual Enrollment at Orange Technical College**
Career Dual Enrollment allows the student to take courses through Orange Technical College while still enrolled in high school. Dual enrollment programs prepare students for the workforce and continuing postsecondary education by focusing on technical skills and the attainment of relevant industry certifications. For GPA purposes, dual enrollment grades are weighted the same as Advanced Placement, International Baccalaureate, and Advanced International Certification of Education courses.

**Articulation Agreements**
Students completing designated CTE courses in high school may earn credits toward completion of CTE programs at Orange Technical College, in particular state college programs. Students completing CTE programs at Orange Technical College may earn credits toward an Associate of Science degree.

# NCAA ELIGIBILITY FOR STUDENT ATHLETES

Graduate from high school; Please meet with your counselor to be sure you have met all your graduation requirements

- Complete a minimum of 16* core courses
- Present a minimum grade-point average (GPA in those 16* core courses)

*The NCAA core-course grade-point average is calculated using only NCAA-approved core courses in the required 16 core units.*Very important: If a core course you took is not on the NCAA approved list, it will not be used in your eligibility determination. Courses that appear on your transcript must exactly match the NCAA approved list.**

- Present a qualifying test score on either the ACT or SAT. (Division I schools use a sliding scale)
- Register through the NCAA eligibility center prior to beginning your junior year
- Fee waiver available to students that qualify

Visit the NCAA Eligibility Center website for additional information:
https://web3.ncaa.org/ecwr3/

# COMMUNITY SERVICE

Although it is not a requirement to graduate, community service hours are required for the Bright Futures Scholarship and are a positive addition to college applications. Students must complete a comprehensive community service plan which addresses a social problem or concern and submit the plan to their guidance counselor for approval prior to implementation. Please note: Teachers/Club Sponsors/Coaches do not accept/submit community service hour forms on behalf of students to submit to Student Services; hours must be submitted to Student Services by the student/parent to be applied to student's records.

**Guidelines**

1. Obtain the required forms (via the Student's Lion's Den Canvas course)
2. Develop a written community service plan which addresses a social problem or concern
3. Submit the plan through the Student's Lions Den Canvas course for pre approval
4. All community service will begin the summer prior to entering high school; community service prior to the summer of 9th grade will not be counted
5. Submit community service documentation through the Student's Lions Den course on Canvas upon completion of the approved activity

# ADMISSION TO THE STATE UNIVERSITY SYSTEM

Admission into Florida's public universities is competitive. Prospective students should complete a rigorous curriculum in high school and apply to more than one university to increase their chances for acceptance. To qualify to enter one of Florida's public universities, a first-time-in-college student must meet the following minimum requirements:
Graduate High School with a standard diploma
- Admission test scores
- 16 credits of college preparatory academic courses
- 4 English (3 with substantial writing)
- 4 Mathematics (Algebra 1 level and above)
- 3 Natural Science (2 with substantial lab)
- 3 Social Science
- 2 World Language - sequential, in the same language
- 2 approved electives

In addition to the State University System, the Florida College System includes 28 state colleges. These institutions offer career-related certificates and two-year associate degrees that prepare students to transfer to a bachelor's degree program or to enter jobs requiring specific skills. Many also offer baccalaureate degrees in high-demand fields. Students who have earned a standard high school diploma, have earned a high school equivalency diploma or have demonstrated success in postsecondary coursework will be admitted to an associate degree program. Additional information is available at fldoe.org/fcs

## Talented Twenty

The Talented Twenty Program is part of the Governor's Equity in Education Plan. Students eligible for the Talented Twenty Program are guaranteed admission to one of the twelve state universities and are given priority for award of funds from the Florida Student Assistance Grant (FSAG). The FSAG program is a needs-based grant; therefore, Talented Twenty Students must meet FSAG eligibility requirements in order to qualify for priority funding.

In order to qualify for the Talented Twenty Program, a student must:
- Be enrolled in a Florida public high school and graduate with a standard diploma.
- Be ranked in the top 20% of the class after the posting of seventh semester grades.
- Take the ACT or SAT.
- Complete the eighteen college preparatory courses as specified in the State Board of Education.

## Application for State Universities

High school counselors and college and career specialists are prepared to assist students with the application process for state university admissions. To be considered for the Florida State Assistance Grant (FSAG) program, students must file the Free Application for Federal Student Aid (FAFSA) in time to meet the application deadline established by the institution they plan to attend. The FAFSA is available online at fafsa.ed.gov and uses parent and student income information in a formula developed by the United States Congress to calculate the financial contribution families are expected to make toward a student's postsecondary education.

# FINANCIAL AID INFORMATION

Investigating scholarship opportunities should begin long before students reach their senior year of high school. Each year thousands of dollars are made available through local, state and national scholarship funds.

## FAFSA

The Free Application for Federal Student Aid (FAFSA) is an application that is prepared annually by current and prospective college students in the United States to determine their eligibility for financial aid. Although you may feel that you do not qualify for financial aid, many grants, scholarships, and most colleges/universities require the FAFSA to be completed. ALL seniors need to apply for this! https://studentaid.gov/h/apply-for-aid/fafsa

## Florida Bright Futures Scholarship Program

The State of Florida offers three merit-based scholarships for students attending postsecondary educational programs in Florida. You must apply for a Bright Futures Scholarship by submitting an Initial Student Florida Financial Aid Application (FFAA) at https://www.floridastudentfinancialaidsg.org/SAPHome/SAPHome?url=home starting October 1st of your senior year in high school.

### Academic Scholarship

- 3.5 Bright Futures weighted GPA in 16 college prep classes
- 1330 SAT or 29 ACT
- 100 hours of Community Service

### Medallion Scholarship

- 3.0 Bright Futures weighted GPA in 16 college prep classes
- 1210 SAT or 25 ACT
- 75 hours of Community Service

### Gold Seal Scholarship

- 3.0 Bright Futures weighted GPA in the 16 core classes
- 3.5 unweighted GPA in an approved Vocational Program (3 credits)
- 30 Hours of Community Service

# COURSE OFFERINGS

## ENGLISH LANGUAGE ARTS

**ENGLISH 1/ ENGLISH HONORS 1 (1001310/10001320)**
Study of world literature with an emphasis on reading, comprehension skills, and vocabulary. Grammar skills will be incorporated with writing and organization patterns.

**ENGLISH 2/ ENGLISH HONORS 2 (1001340/1001350)**
English 2 uses texts of high complexity to provide grade 10 students integrated instruction in reading, writing, speaking, listening, and language for college and career preparation. This course focuses on literature which includes novels, short stories, informational texts, poetry, and classic drama. Additionally, it emphasizes skills tested on the FSA such as grammar, composition, vocabulary, and evidence-based writing.

**ENGLISH 3/ ENGLISH HONORS 3 (1001370/1001380)**
The purpose of this course is to provide grade 11 students, using texts of high complexity, an integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness. English III is a chronological study of non-fiction and fiction. Students will analyze and evaluate informational and literary works in conjunction with American historical events beginning with exploration and settlement and continuing into the contemporary period. Through reading and viewing multiple mediums, students will explore major questions surrounding the American identity, literature as a reflection/shaper of society, and the relationship between literature and setting. In tandem with literary study, students will also sharpen their writing skills through the method of presenting arguments and providing appropriate evidence to support those arguments. Furthermore, students will be taught strategies to help them adequately prepare for college-entrance exams.

**ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (1001420)**
Learn about the elements of argument and composition as you develop your critical-reading and writing skills. Students will read and analyze nonfiction works from various periods and write essays with different aims: for example, to explain an idea, argue a point, or persuade your reader of something. Skills learned: close reading, analyzing, and interpreting a piece of writing, evaluating a source of information, gathering and consolidating information from different sources, writing an evidence-based argument, and drafting and revising a piece of writing.

**ENGLISH 4 COLLEGE PREP/ ENGLISH HONORS 4 (1001405/1001410)**
The purpose of this course is to provide grade 12 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness. Aims for academic excellence in language arts through a program emphasizing literature and proficiency in composition, ACT/SAT vocabulary, and ACT/SAT reading comprehension skills. Writing activities and two documented papers will be required. 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.

# COURSE OFFERINGS

**ADVANCED PLACEMENT ENGLISH LITERATURE/ COMPOSITION (1001430)**
The course content will follow the outline by the College Board for Advanced Placement English Literature/Composition. This course involves the study and practice of writing about literature. Students learn to use modes of discourse, rhetorical strategies, and critical standards for literary works. Related literature to contemporary experience and/or history.

**ADVANCED PLACEMENT CAPSTONE SEMINAR (1700500)**
AP Seminar is an interdisciplinary course that encourages students to demonstrate critical thinking, collaboration, and academic research skills on topics of the students choosing. To accommodate the wide range of student topics, typical college course equivalents include interdisciplinary or general elective courses. Students will develop and practice the skills in research, collaboration, and communication that are needed in any academic discipline and investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team, as well as learn how to write proper academic research papers that equate to 55% of their AP composite score. AP Capstone Seminar is blocked together with AP English Language in the junior year.
**Completion of AP Capstone Seminar and AP Capstone Research in conjunction with four passing AP exams in other disciplines earns the student an AP Capstone Diploma.*

**ADVANCED PLACEMENT RESEARCH (1700510)**
AP Research is an interdisciplinary course that encourages students to demonstrate critical thinking and academic research skills on a topic of the student's choosing. To accommodate the wide range of student topics, typical college course equivalents include introductory research or general elective courses.Students will build on what they learned in AP Seminar to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, they will design, plan, and conduct a year-long research-based investigation to address a research question and defend it against a panel. This equates to 100% of their AP composite score for research.
**Completion of AP Capstone Seminar and AP Capstone Research in conjunction with four passing AP exams in other disciplines earns the student an AP Capstone Diploma.*

**DEBATE 1 (1007330)**
The course develops awareness, understanding, and application of theories of argumentation and advocacy as well as principles of public speaking. Students will develop research, writing, and speaking skills with opportunities to apply those skills through participation in debate and
public speaking events throughout the state of Florida. Extracurricular participation is encouraged but not required.

**DEBATE 2/ DEBATE 3 HONORS/DEBATE 4 HONORS (1007340/107350/1007360)**
These courses build on the theories of argumentation and principles of public speaking introduced in Debate 1. Each class provides increasingly sophisticated application of research-based persuasive speech on a variety of topics.

# COURSE OFFERINGS

**JOURNALISM 1-4; 5-6 HONORS (1006300/10/20/30) (1006331/32)**
Provides foundations for effective journalism study and application. Explores careers in journalism with heavy emphasis in writing style and article development, as well as the latest technologies in desktop publishing. Taught in an IBM lab, students learn up-to-date skills, including interviewing, news and feature writing, layout, design, production, word processing, and advertising sales and design. Provides some opportunity for students to assist yearbook and newspaper staff. Prepares students for Newspaper 2 or Yearbook 2.

## MATHEMATICS

**ALGEBRA 1 A (1200370)**
The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**ALGEBRA 1/ALGEBRA 1 HONORS (1200310/1200320)**
Topics include properties of the real number system, rational and irrational numbers, exponents, square roots, radicals, absolute value, scientific notation, patterns, relations, functions, variables, algebraic expressions, polynomials, coordinate geometry, graphing of equations and inequalities, introductory statistics, probability, quadratic equations, and systems of equations. Students must pass the End of Course Exam (EOC).

**GEOMETRY/GEOMETRY HONORS (1206310/1203620)**
This course expands on the geometric themes taught in middle school. It includes logical reasoning and problem-solving using transformations and the relationships of Euclidean Geometry. There is a state mandated End of Course Exam which is factored as 30% of the student's final grade. Algebra 1 is a prerequisite for this course.

**ALGEBRA 2/ALGEBRA 2 HONORS (1200330/1200340)**
Topics covered include 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; system of quadratic equations and inequalities; polynomial functions; rational and irrational exponents; logarithms and their use; operations with complex numbers; and problem solving.

**PRE-CALCULUS HONORS (1202340)**
Topics include extension of polynomial functions, exponential functions, and logarithmic functions. This course extends hyperbolic function and limits into calculus. It is a strong preparation for calculus.

# COURSE OFFERINGS

**ADVANCED PLACEMENT CALCULUS AB (1202310)**
The course content will follow the outline by the College Board for Advanced Placement Calculus. Topics include derivatives of functions and inverse functions, differentially and continuity, increasing and decreasing functions, concavity, points of inflections, antiderivatives, integration and applications of integration to find area and volume, and use of graphing calculators.

**ADVANCED PLACEMENT CALCULUS BC (1202320)**
The college-level course will follow the outline by the College Board for Advanced Placement Calculus. Topics include parametric, polar and vector functions; slope fields; Euler's method; improper integrals; series; and all topics included in the Advanced Placement Calculus AB course.

**PROBABILITY & STATISTICS HONORS (1210300)**
Probability and Statistics introduces students to how data is collected, organized, and analyzed. Students will use data to make and draw conclusions. Students will do some basic statistical applications using Microsoft Excel, and/or a TI-84 calculator to test hypotheses and understand confidence intervals. A minimum of a scientific calculator is strongly recommended. This course will help to prepare students for Statistics at the post-secondary level, where it is often a General Education class.

**ADVANCED PLACEMENT STATISTICS (1210320)**
The college level course will follow the outline by the College Board for Advanced Placement Statistics equivalent to an introductory, non-calculus-based college course in statistics, which is typically required for majors such as social sciences, health sciences, and business. Topics include exploring data by observing patterns, planning a study, and confirming models to make statistical inferences.

**MATHEMATICS FOR COLLEGE ALGEBRA (1200710)**
Instructional time will emphasize five areas: developing fluency with the Laws of Exponents with numerical and algebraic expressions; extending arithmetic operations with algebraic expressions to include rational and polynomial expressions; solving one-variable exponential, logarithmic, radical and rational equations and interpreting the viability of solutions in real-world contexts; modeling with and applying linear, quadratic, absolute value, exponential, logarithmic and piecewise functions and systems of linear equations and inequalities; extending knowledge of functions to include inverse and composition.
All clarifications stated, whether general or specific to Mathematics for College Algebra, are expectations for instruction of that benchmark.

**MATHEMATICS FOR DATA AND FINANCIAL LITERACY HONORS (1200388)**
Instructional time will emphasize five areas: extending knowledge of ratios, proportions and functions to data and financial contexts; developing understanding of basic economic and accounting principles; determining advantages and disadvantages of credit accounts and short- and long-term loans; developing understanding of planning for the future through investments, insurance and retirement plans and extending knowledge of data analysis to create and evaluate reports and to make predictions.

# COURSE OFFERINGS

## SCIENCE

**BIOLOGY 1/BIOLOGY HONORS (2000310/2000320)**
Includes lab and textbook activities relating to such topics as cells, genetics, taxonomy, botany, zoology, human anatomy, and ecology.

**ADVANCED PLACEMENT BIOLOGY (2000340)**
The course content will follow the outline by the College Board for Advanced Placement Biology. Detailed study of molecules and cells, genetics and evolution, and organisms and populations. Taking Biology Honors or Pre-AP Biology is recommended.

**ANATOMY & PHYSIOLOGY/ANATOMY & PHYSIOLOGY HONORS (/2000350/2000360)**
Topics include human anatomical terminology; cells, tissues, and organs; and thorough study of integumentary, skeletal, muscular, nervous/ sensory, endocrine, circulatory, respiratory, and digestive systems. Labs will include in-depth tissue study; skeletal, muscle, brain, and heart; and full cat dissections.

**CHEMISTRY 1/CHEMISTRY HONORS (2003340/2003350)**
A college preparatory class for non-science majors. Students are required to have passed algebra 1 and geometry with a 3 or above on the corresponding EOC state assessment. Topics for this course include chemical reactions, models of the atom, four naming systems, gases, thermochemistry, bonding, kinetics, equilibrium, and electrochemistry.

**ADVANCED PLACEMENT CHEMISTRY (2003370)**
The course content will follow the outline by the College Board for Advanced Placement Chemistry. This math intensive, college level chemistry course is designed to develop a greater depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the student's abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. Taking Chemistry Honors prior to AP Chemistry is required.

**ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (2001380)**
AP environmental science is a rigorous interdisciplinary course that covers earth science, chemistry, biology, and math while increasing problem solving skills. The goal of APES is to help students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations as they explore the concepts of energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability. Students will analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems and examine alternative solutions for resolving or preventing them.

# COURSE OFFERINGS

**FORENSIC SCIENCE (2002480)**
This is a laboratory-based science class designed for students to gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators, and to develop an understanding of the application of science to criminal and civil laws.

**MARINE SCIENCE (2002500)**
The purpose of this course is to provide an overview of the marine environment. Topics include: the history of oceanography; the study of the ocean floor; chemical and physical
properties of the ocean; marine communities and ecology, classification of marine organisms, and a survey of the major phyla of marine plants and animals.

**PHYSICS 1 HONORS (2003390)**
This course introduces the natural laws that govern the universe. Topics Include motion, forces, vectors, energy, momentum, gravity, thermodynamics waves, sound, light, electricity, and nuclear physics. Laboratory activities are included throughout the year in all topics. The student is expected to design and perform experiments, record, and display and interpret results. Algebra 2 skills are used extensively all year as an application to Physics.

**ADVANCED PLACEMENT PHYSICS 1 (2003421)**
AP Physics 1 is an introductory physics course that covers the basic principles of mechanics. This course is the first part of introductory physics similar to College Physics 1. Students are required to analyze situations and apply laws of physics to determine cause and effect relationships, perform mathematical calculations, and predict future behaviors of a system. Students are also required to design, perform, and analyze experiments based on various scenarios. Topics include motion, forces and gravitation, energy, momentum, harmonic motion, rotational motion, circuits, and waves.

**ADVANCED PLACEMENT PHYSICS C: MECHANICS (2003430)**
Prerequisites: A or B in AP Physics 1 and concurrently taking AP Calculus AB or BC. AP Physics C: Mechanics is a rigorous calculus-based physics course. Students are required to analyze situations and apply laws of physics to determine cause and effect relationships, perform mathematical calculations, and predict future behaviors of a system. Students are also required to design, perform, and analyze experiments based on various scenarios. Students are expected to apply the concepts of calculus to the concepts of physics in terms of calculations, conceptual reasoning, and data analysis. Topics include motion, forces, energy, momentum, rotational mechanics, simple harmonic motion, and gravitation.

# COURSE OFFERINGS

## SOCIAL STUDIES

**ADVANCED PLACEMENT HUMAN GEOGRAPHY (2103400)**
AP Human Geography introduces high school students to college-level introductory human geography where students will see geography as a discipline relevant to the world in which they live. The content is presented thematically around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human- environment relationships on places, regions, cultural landscapes, and patterns of interaction.

**WORLD CULTURAL GEOGRAPHY (2103300)**
The primary content emphasis for this course pertains to the study of world cultural regions in terms of location, physical characteristics, demographics, historical changes, land use, and economic activity. Content should include, but is not limited to, the use of geographic tools and skills to gather and interpret data and to draw conclusions about physical and human patterns, the relationships between physical geography and the economic, political, social, cultural and historical aspects of human activity, patterns of population growth and settlement in different cultures and environments, the interaction between culture and technology in the use, alteration and conservation of the physical environment, and the interrelationships and interdependence of world cultures.

**WORLD HISTORY/WORLD HISTORY HONORS (2109310/2109320)**
This course consists of the following content area strands: world history, geography, and the humanities. The study begins with the rise of the Byzantine Empire and concludes with contemporary world affairs. Topics covered include: geography, time-space relationships, religions, political and economic systems, revolutions around the world, the global phenomenon of nationalism, international relations, the influence of major historical figures, short-term and long-term effects of major events, the importance of scientific discoveries to societies, and the contributions and achievements of civilizations and nations.

**ADVANCED PLACEMENT WORLD HISTORY (2109420)**
The course content will follow the outline by the College Board for Advanced Placement World History. Students will acquire an in-depth understanding of the evolution of global processes and contacts in interaction with different types of human societies. The material covered extends from 8,000 B.C.E. to the present. This course satisfies the World History requirement for graduation.

**UNITED STATES HISTORY/ UNITED STATES HISTORY HONORS (2100310/2100320)**
This course is a chronological study of the development of the United States from the Civil War to the present with emphasis on the twentieth century. It examines the political, economic, social, religious, cultural, military, Constitutional, and international events affecting the growth of the nation. This course has a state End-of-Course exam and is required for graduation.

# COURSE OFFERINGS

**ADVANCED PLACEMENT UNITED STATES HISTORY (2100330)**
AP United States History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places. These themes include: American and national identity; politics and power; work, exchange, and technology; American and regional culture; migration and settlement; geography and the environment; America in the world; and social structures. Strong reading and writing skills are a necessity. This course satisfies the U.S. History requirement for graduation.

**AMERICAN GOVERNMENT/ AMERICAN GOVERNMENT HONORS (2106310/2106320)**
Provides an in-depth study of political documents, analyses of 3 branches of government, changing nature of political parties and interest groups, and evaluations of citizen rights and responsibilities in a democratic state stressing critical thinking and decision-making skills.

**ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS(2106420)**
The course content will follow the outline by the College Board for Advanced Placement U.S. Government and Politics. Content provides an analytical perspective on government and politics in the United States as well as a familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. This course satisfies the American Government requirement for graduation.

**ECONOMICS WITH FINANCIAL LITERACY/ ECONOMICS WITH FINANCIAL LITERACY HONORS (2102335/2102345)**
Topics for this course include role and impact of economic wants, productive resources, scarcity and choices, opportunity costs and trade-offs, economic incentives, specialization, comparative advantage, division of labor, interdependence, savings and investment, how markets work; the citizen as producer, consumer, and decision-maker; role and function of money, financial institutions, labor micro- and macro- economic problems, and similarities/differences of other economic systems.

**ADVANCED PLACEMENT MACROECONOMICS (2102370)**
The course content will follow the outline by the College Board for Advanced Placement Macroeconomics. Content includes a thorough understanding of the principles of economics that apply to an economic system as a whole. It emphasizes the study of national income and price determination, the financial sector, and inflation, unemployment, and stabilization policies. It develops familiarity with economic performance measures, productivity, economic growth, and national economics.

# COURSE OFFERINGS

**ADVANCED PLACEMENT ART HISTORY (0100300)**
Prerequisite: Recommendation
The course content will follow the outline by the College Board for Advanced Placement Art History. Content includes the study of art history: its relationship to other disciplines, art criticism, and theory of art; the value of art as an important realm of human experience, the history and evolution of art forms and symbols and their relationship to historical data, and the aesthetic merits and historical significance of works of art.

**ADVANCED PLACEMENT EUROPEAN HISTORY (2109380)**
AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History, students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1400 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places. Strong reading and writing skills are a necessity.

**ADVANCED PLACEMENT PSYCHOLOGY (2107350)**
The course content will follow the outline by the College Board for Advanced Placement Psychology. The content introduces the students to the study of the human mind and behavior by the completion of the course, the students will have a better understanding of the workings of the human mind, mental processes, personality, development and mental disorders.

**HOLOCAUST STUDIES (2109430)**
This course examines the events of the Holocaust and enables the student to understand their connection to the development of civilization by examining the past to prepare for their future as members of a global community.

**PSYCHOLOGY 1 AND 2 (2107300/2107310)**
This course is a study of human behavior, behavioral interaction, and progressive development of individuals. It includes theories and methods of study which include human growth and development, self-concept development, adjustment motivation, desire, intelligence, conditioning and learning, memory, personality, and behavior.

**SOCIOLOGY (2108300)**
Students will acquire an understanding of group interaction and its impact on individuals in order that they may have a greater awareness of the beliefs, values and behavior patterns of others. In an increasingly interdependent world, students need to recognize how group behavior affects both the individual and society.

# COURSE OFFERINGS

## AGRICULTURE

**AGRISCIENCE FOUNDATIONS HONORS (8106810)**
This course is designed to develop competencies in the areas of agricultural history, the global importance of agriculture, career opportunities, applied scientific and technological concepts, ecosystems, agricultural safety, principles of integrated pest management, principles of plant and animal growth, economic principles, agricultural marketing, and human relations skills. The laboratory activities are an integral part of this course, which includes the safe use and application of high technology equipment, telecommunications equipment, and scientific testing and observation equipment. Agriscience Foundations counts as a science credit and is a prerequisite for all upper-level courses.

**HORTICULTURE 2-4 (8121510/8121520/8121610)**
This course is designed to provide students with skills and knowledge related to technologies used to grow intensively produced plants for human food and non-food uses and for personal or social needs. Each successive course increases in depth and application of knowledge and skill.

## NAVAL SCIENCE

**NAVAL SCIENCE 1-4 (1802300/1802310/1802320/1802330)**
The purpose of this program is to introduce students to the precepts of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. This course will also enable students to develop appreciation for the heritage and traditions of America, to recognize the importance of the role of sea power in America's future, and to develop a sense of pride in his/her organization, associates, and self. These elements are pursued at a fundamental level.

# COURSE OFFERINGS

## DIGITAL MEDIA

**DIGITAL DESIGN 1-3 (8209510/8209520/8209530)**
This computer based program of study will allow students to explore software to design and create a variety of multimedia products. Students will receive enhanced practical experiences in computer generated art and text, graphic design, graphic production, digital design skills, preparation of digital layouts and illustrations, scanning, and the development of specialized multimedia presentations.

**DIGITAL VIDEO TECHNOLOGY 1-4 (8201410/8201420/8201430/8201440)**
Students will learn all aspects of video production, including screenwriting, pre-production, videography, and editing through hands-on experience. Students will create video projects; analyze television shows and motion pictures for production elements; and learn the equipment and crew positions necessary to produce a news program. Course meets the Practical Arts graduation requirement.

**3-D ANIMATION (8708110)**
The program comprises the entire workflow in the 3D animation pipeline using computer generated objects and environments. Course content includes creation of models, polygonal structure of both mechanical and organic models, surfacing and texturing, loading modules into software and lighting and animating models. Students will also learn how to create worlds for the models to reside and the compositing process for real world video interaction.

## COMPUTER SCIENCE

**ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES (0200335)**
Advanced Placement Computer Science Principles AP Computer Science Principles (AP CSP) introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP CSP prepares students for college and career opportunities. This course is one of the few AP courses that allows 9th graders to enroll. However, since some aspects require an understanding of mathematical concepts such as functions and logic, all students must be taking honors level mathematics regardless of their grade level.

**ADVANCED PLACEMENT COMPUTER SCIENCE A (0200320)**
AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

# COURSE OFFERINGS

## ENGINEERING

**INTRODUCTION TO ENGINEERING (8600550)**
This is the first year Engineering pathway course. This course will introduce you to the concepts of design, walk you through the design process and let you express your creativity as you design, sketch, build and test various different projects. You will also create working models of your ideas and sketches that will be tested and enhanced to make them even better. The class also focuses on an industry certification in Autodesk Fusion with the opportunity to also certify in Autodesk Inventor.

**CIVIL ENGINEERING AND ARCHITECTURE (8600590)**
This is a 2nd or 3rd Engineering pathway course where we learn about Engineering design, structure and concepts. We have various different design projects where your creativity can be shown in a very big way. The course also offers an opportunity to certify in Autodesk Revit, a 3-d CAD modelling program. We also, normally, attend several different field trips and expos learning from multiple vendors in the construction industry.

**AEROSPACE ENGINEERING (8600620)**
Aerospace Engineering ignites students' learning in the fundamentals of atmospheric and space flight. The course deepens the skills and knowledge of an engineering student within the context of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system, and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. They also apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot.

**PRINCIPLES OF ENGINEERING (8600520)**
This course helps students understand the field of engineering/engineering technology and prepares them for postsecondary engineering programs by developing a more in-depth mastery of the required knowledge and skills in mathematics, science, and technology. Through problem-based learning strategies, students study key engineering topics, including mechanisms, energy sources, energy applications, machine control, fluid power, statics, material properties, material testing, statistics, and kinematics. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

# COURSE OFFERINGS

## FINE ARTS

**CERAMICS 1 (0102300)**
An introduction and understanding of ceramics through basic hand-building techniques. Also introduced are the history and uses of clay, tools, glazes, and kilns. Students will develop and practice maintenance skills in an open studio environment.

**CERAMICS 2/ CERAMICS 3 HONORS (0102310/0102320)**
A continued study in all methods of clay construction in functional and/or nonfunctional designed projects. Students may also explore throwing, large-scale work, mural design, modular design, and furniture/accessory designs in clay. An emphasis on craftsmanship and creativity as well as presentation of work will be stressed.

**DRAWING (0104340)**
Drawing 1 is a prerequisite to all other drawing and painting courses. This is a beginning level drawing class in which students experiment with the media and techniques used to create a variety of two- dimensional (2-D) artworks. Students practice, sketch, and manipulate 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. Students will explore a variety of art media, which may include pencil, charcoal, colored pencils, markers, and water-based media. Students will produce art for personal pleasure and/or public display. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials.

**DRAWING 2 (0104350)**
Prerequisite: Drawing 1
Students develop and refine technical skills and create 2-D compositions with a variety of media in drawing. Student artist's 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. Students will explore advanced drawing skills and media techniques. Students will produce art for personal pleasure and/or public display. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials.

**ADVANCED PLACEMENT ART DRAWING PORTFOLIO (0104300)**
Prerequisite: Drawing 2 or Painting 1
AP Drawing Portfolio is an advanced study in drawing and painting. This course includes the design,creation, and presentation of work. Students will create a body of work through a sustained investigation that reflects an understanding of the medium and utilizes the elements of art and principles of design. Students in AP Drawing Portfolio must submit a portfolio to the College Board which contains a minimum of 20 pieces of work for evaluation. Students may receive both high school and college credit for this course providing portfolio scores meet the College Board minimum standards. This course incorporates hands-on activities and consumption of art materials.

# COURSE OFFERINGS

**ADVANCED PLACEMENT ART 2-D DESIGN PORTFOLIO (0109350)**

Prerequisite: Drawing 2 or Painting 1

This course is an advanced study in 2-Dimensional design. This course includes the design, creation, and presentation of work in a variety of 2-D media which may include drawing, painting, printmaking, digital design, photography, collage and other 2- D media. Students will create a body of work through a sustained investigation that reflects an understanding of the medium and the elements of art and principles of design. Students in AP 2-D Art and Design must submit a portfolio to the College Board which contains a minimum of 20 pieces of work for evaluation. The portfolio must contain 20 works of art, and responses to prompts. Students may receive both high school and college credit for this course providing portfolio scores meet the College Board minimum standards. This course incorporates hands- on activities and consumption of art materials.

**PAINTING 1/ PAINTING 2 (0104370/0104380)**

Painting I is an intermediate level 2-D art course. Students experiment with the media and techniques used to create a variety of two-dimensional (2-D) artworks through the development of skills in painting. Students practice and manipulate 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.

Students will explore the use of watercolor, tempura, and acrylic paints along with other water-based media. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials.

**PORTFOLIO DEVELOPMENT: DRAWING HONORS (0109310)**

Students work in a self-directed environment to develop a portfolio showing a body of their own work that visually explores a particular artistic concern, articulated and supported by a written artist's statement. Artists may work in, but are not limited to, content in drawing, painting, printmaking, and/or mixed media that emphasizes line quality, rendering of form, composition, surface manipulation, and/or illusion of depth. Students regularly reflect on aesthetics and art issues individually and as a group, and focus on expressive content that is progressively more innovative and representative of the student's artistic and cognitive growth.

**CREATIVE PHOTOGRAPHY (0108310)**

Students explore the aesthetic foundations of art making using beginning photography techniques. This course may include, but is not limited to, color and/or black and white photography via digital media and/or traditional photography. Students become familiar with the basic mechanics of a camera, including lens and shutter operation, compositional foundations, printing an image for display, and evaluating a successful print. Student photographers may use a variety of media and materials, such as 35mm black and white film, single lens reflex camera, digital camera, darkroom, computer application, filters, various papers, digital output, photogram, cyanotypes, Sabatier effect, and pinhole photography. This course incorporates hands-on activities and consumption of art materials.

# COURSE OFFERINGS

**CREATIVE PHOTOGRAPHY 2 (0108320)**
Students experiment with a variety of photographic media and techniques, and make connections with historical and contemporary photographers to develop a focused body of work. Processes and techniques include, but are not limited to, handcrafted pinhole cameras, hand-tinted photographs, mixed media, cyanotypes, medium format, photo collage, cross-processing, creative filters, infrared and slide film, night photography, macro, panoramic, and/or digital output via a variety of media. Photographers use an art criticism process to evaluate, explain, and measure artistic growth in personal or group works. This course incorporates hands-on activities and consumption of art materials.

## LAW ENFORCEMENT

**CRIMINAL JUSTICE OPERATIONS 1 (8918010)**
This course is to introduce the student to the history, goals, and career opportunities in the Criminal Justice Profession. It, also, covers ethics and professionalism, constitutional and criminal laws, court and trial process, juvenile justice system, and the correctional system. Students will, also, be instructed on personal, interpersonal, and communication skills as well as demonstrate employability skills.

**CRIMINAL JUSTICE OPERATIONS 2 (8918020)**
This course is to introduce the student to the characteristics and procedures of patrol, complete written reports, and crime prevention programs. Students will, also, describe guidelines for use-of-force, perform CPR and first aid techniques, and procedures to protect from blood-borne pathogens. Training for Traffic Control Officer and Parking Enforcement Specialist IAW Florida Statute 316.640 will be accomplished.

## LEADERSHIP

**LEADERSHIP (SGA) (2400300/4200310/2400320/200330)**
Students will learn leadership skills, techniques, strategies, and approaches through the National Student Council curriculum. Each year, students will create and implement a group service project and will have the opportunity to attend conferences to further expand their knowledge and network. Participation in this program requires an application and acceptance.

**LATINOS IN ACTION (2400300A/2400310B)**
This course provides Latino students the opportunity to serve in various student leadership capacities to foster appreciation for their culture and student diversity.

**EXECUTIVE INTERNSHIP (0500300)**
Student assistants will work with school personnel to support staff and students. The purpose of this course is to provide a practical introduction to the work environment through direct contact with professionals in the community.

# COURSE OFFERINGS

**BUSINESS COOPERATIVE EDUCATION (OJT) (8200410)**
Students have the opportunity to earn high school credit by working at an approved job location. This course provides students with practical application to the work environment.

## HEALTH SCIENCES

**MEDICAL SKILLS AND SERVICES (8400320)**
This course provides instruction in relevant technical knowledge and skills needed to prepare for further education and careers in the Health Science 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 Health Science career cluster.

**HEALTH SCIENCE 1:ANATOMY AND PHYSIOLOGY (8417100)**
This course introduces students to basic anatomy and physiology. Study includes: directional terminology, chemistry and cellular biology; body systems - integumentary, skeletal, muscular, nervous, endocrine, immune cardiovascular, respiratory, urinary, digestive and reproductive. Pathology of disease and healthcare careers are a part of this course.

**HEALTH SCIENCE 2: FOUNDATIONS**
This course will engage students in studying the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, professional qualities, use of technology, ethics and the development of critical thinking and problem solving skills, cultural diversity, and human growth and development. Students will also learn first aid skills; demonstrate the measurement of vital signs, and infection control practices.

**ELECTROCARDIOGRAPH TECHNICIAN 3(8427130)**
This course is designed to prepare students for employment as electrocardiograph aides, electrocardiograph technicians, EKG Technicians SOC 29-2031 cardiovascular technologists and technicians or to provide supplemental training for persons previously or currently employed in this occupation. The content includes but is not limited to communication and interpersonal skills, overview of human anatomy and physiology with emphasis on cardiac and vascular systems, medical terminology and transcription, patient care techniques, medical instrumentation, cardiovascular drugs, interpretation of monitoring and testing results, medical ethics, cardiac wellness and rehabilitation, safe and efficient work practices, CPR, Basic Life Support (BLS) and employability skills.

# COURSE OFFERINGS

**HEALTH SCIENCE DIRECTED STUDY (8400100A/8400100B)**
This course will provide students with learning opportunities in a prescribed program of study that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who is currently completing a specific secondary job preparatory program. Students will also study for and take the Certified Electronic Health Records Specialist exam.

## PERFORMING ARTS

**BAND 1-4 (1302300/1302310/1302320/1302330); 5-6 HONORS (1302340/1302350)**
Courses develop musicianship in band and instrumental ensembles. Content includes development of characteristic tone production, performance techniques, musical literacy, and music appreciation. As a co-curricular, performance-oriented activity, attendance is required for rehearsals and performances beyond regular school hours. Membership in marching band is integral to the course work.

**EURHYTHMICS 1-4 (1305300/1305310/1305320/1305330)**
As a performance-oriented activity, attendance is required for rehearsals and performances beyond regular school hours as part of the grading procedure. Membership in marching band is integral to the course work.

**GUITAR 1-2 (1301320/1301330)**
Group guitar lessons for students on the beginning level. Emphasizes correct fingering, posture, technique, note reading, recognition of musical symbols, and musicianship. Includes basic music theory. Requires a regimen of daily practice and drills.

**JAZZ ENSEMBLE 1-3 (1302500/1302510/1302520); 4 HONORS (1302530)**
Courses develop musicianship in jazz styles and idioms. Content includes development of characteristic jazz tone and articulation, ensemble performance characteristics, music theory, improvisation, and music appreciation. As a co-curricular, performance-oriented activity, attendance is required for rehearsals and performances beyond school hours and is part of the grading procedure.

**ORCHESTRA 1-4 (1302360/1302370/1302380/1302390); 5-6 HONORS (1302400/1302410)**
Courses develop musicianship in band and instrumental ensembles. Content includes development of characteristic tone production, performance techniques, musical literacy, and music appreciation. As a co-curricular, performance-oriented activity, attendance is required for rehearsals and performances beyond regular school hours. Membership in marching band is integral to the course work.

# COURSE OFFERINGS

**INSTRUMENT TECHNIQUES 2 (1302430)**
Students in this novice-level class continue to develop musical and technical skills on a specific instrument through developmentally appropriate solo literature, etudes, scales, and exercises. Through problem-solving, critical thinking, and reflection, students develop the physical and cognitive skills necessary to be more disciplined performers.

**PIANO (KEYBOARD) 1-3 (1301360/70/80); 4 HONORS (1301390)**
Group piano instruction which advances to levels beyond Piano 1 and allows for more individual pacing. Emphasizes correct fingering, posture, technique, note reading, recognition of musical symbols, and musicianship. Includes basic music theory and exposure to a variety of musical styles through listening. Requires a regimen of daily practice and drills.

**ADVANCED PLACEMENT MUSIC THEORY (1300330)**
The course content will follow the outline by the College Board for Advanced Placement Music Theory. Content includes college level music skills in music theory, harmony, and composition. Students will study the fundamental structures of music, including scales, modes, chord structure and development, aural dictation, manuscript, and the use of computers in music manuscript composition and arranging.

**MUSIC THEORY 1 (1300300)**
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.

**CHORUS 1-4 (1303300/10/20/30); 5-6 (HONORS) (1303340/50)**
This men's chorus performs musical literature of various styles, cultures, and historical periods. Emphasis is placed on developing individual voices, listening concepts, and note reading. Attendance required for rehearsals and performing beyond school hours as part of the grading procedure. Some after school rehearsals with Concert Choir men.

**THEATRE 1-2 (0400310/0400320); 3-4 HONORS (0400330/0400340)**
This is a hands on, participation class for students interested in learning about the Fine Art of Theatre. Through the year students will learn a basic foundation of theatre terminology, theatre history and basic acting techniques. These skills will be taught through acting exercises that include monologue, duet acting, and ensemble scene work in which there will be memorization work. Through hands-on opportunities students will gain basic knowledge of design and construction of sets, props and costumes. All students will be required to paint, sew, sweep, build, etc. and these activities will be graded.

# COURSE OFFERINGS

**TECHNICAL THEATRE DESIGN & PRODUCTION 1-4 (0400410/20/30/40)**
Like to build? Students focus on learning the basic tools and procedures for designing and creating scenery and properties (props) with particular attention to technical knowledge of safety procedures and demonstrated safe operation of theatre equipment, tools, and raw materials. Students also learn the standard conventions of design presentation and documentation; the organizational structure of theatre production and creative work in a collaborative environment; through various self-assessment tools.

**THEATRE IMPROVISATION (0400620)**
Students learn to communicate effectively, both verbally and non-verbally; develop and build critical listening and collaborative skills, and think and solve problems quickly and appropriately on the spot, which transfers well to academic, career, and social arenas. Through collaboration, communication, and performance activities, students engage in improvisation as a stand-alone art form and as an acting methodology.

## HEALTH & PHYSICAL EDUCATION

**FIRST AID AND SAFETY (0800320)**
Provides students with opportunities to acquire advanced skills in first aid; emergency care; and personal, community, and environmental safety. Content includes advanced first aid, two-person and infant CPR; and relief of obstructed airway and safety. This course is taken in conjunction with Care/Prevention of Athletic Injuries.

**CARE/PREVENTION OF ATHLETIC INJURIES (1502490)**
Co-requisite: First Aid and Safety
This course provides students with the opportunities to acquire knowledge and skills related to the nature, prevention, care, and rehabilitation of athletic injuries that may be used in recreational pursuits today as well as in later life.

**H.O.P.E. (Health Opportunities through Physical Education) (3026010)**
The purpose of the course is to enable students to develop an understanding of fitness concepts, human sexuality, design a personal fitness program, and be introduced to various life management skills. This course is a graduation requirement.

**INDIVIDUAL/DUAL SPORTS 1/2 (1502410/1502420)**
This course includes knowledge and application of techniques, scoring, strategies, and rules involved in traditional activities such as tennis.

# COURSE OFFERINGS

**TEAM SPORTS 1/2 (1503350/1503360)**
Basketball, Flag Football, Floor Hockey, and Volleyball will be introduced. The focus will be on skill development. Content will include knowledge of skills, strategies, rules, and safety practices necessary to participate in these sports at a recreational level. Team sports 2: Soccer, Softball, Speedball, and Ultimate Frisbee will be introduced.

**WEIGHT TRAINING 1-3 (1501340/1501350/1501360) AND COMPREHENSIVE FITNESS (1501390)**
Provides students with opportunities to acquire knowledge and skills in weight training including an assessment of muscular strength and endurance as well as a knowledge of health problems associated with inadequate levels of muscular strength, skeletal muscles, sound nutritional practices, and consumer issues related to weight training.

## COMPUTER SCIENCE

**ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES (0200335)**
Advanced Placement Computer Science Principles AP Computer Science Principles (AP CSP) introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP CSP prepares students for college and career opportunities. This course is one of the few AP courses that allows 9th graders to enroll.
However, since some aspects require an understanding of mathematical concepts such as functions and logic, all students must be taking honors level mathematics regardless of their grade level.

**ADVANCED PLACEMENT COMPUTER SCIENCE A (0200320)**
AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

## WORLD LANGUAGES

**FRENCH 1 (0701320)**
French 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.

# COURSE OFFERINGS

**FRENCH 2 (0701330)**
French 2 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.

**FRENCH 3 HONORS (0701340)**
French 3 provides mastery and expansion of skills acquired by the students in French 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.

**AP FRENCH (0701380)**
Prepares students to demonstrate level of French proficiency through interpersonal, interpretive, and presentational modes. Course follows the outline set forth by the College Board.

**SPANISH 1-2 (0708340/0708350)**
Enables students to acquire proficiency in Spanish through a linguistic, communicative, and cultural approach to language learning. Developing listening, speaking, reading, and writing skills and on acquisition of applied grammar.

**SPANISH 3 HONORS (0708360)**
The primary purpose of the Spanish 3 Honors course is to help students master and expand the skills acquired in their Spanish 2 course through discussions of selected readings and writing activities. By the end of the course, students should be able to demonstrate: oral and written fluency in the language, proper use of grammar and syntax of the language, the ability to read and interpret written texts, the ability to express one's opinion on cultural and or contemporary issues, the ability to interpret aural selections, the ability to present information on a researched topic in Spanish, knowledge of the Spanish speaking culture and its people.

**ADVANCED PLACEMENT SPANISH LANGUAGE (0708400)**
The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish 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 Spanish. The AP Spanish 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).

# COURSE OFFERINGS

**ADVANCED PLACEMENT SPANISH LITERATURE (0708410)**
The course, taught almost exclusively in Spanish, focuses on introducing students to representative texts from Peninsular Spanish, Latin American, and United States Hispanic literature. Students learn to analyze works of literature written in Spanish through historical, artistic, sociocultural, and geopolitical contexts. They also develop their interpersonal, presentational, and interpretive communication skills.

**AMERICAN SIGN LANGUAGE 1 (0717300)**
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 (0717310)**
American Sign Language 2 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.

**AMERICAN SIGN LANGUAGE 3 HONORS (0717312)**
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.