

# OLYMPIA HIGH SCHOOL CURRICULUM GUIDE



[www.olympiahs.ocps.net](http://www.olympiahs.ocps.net)

4301 S. Apopka Vineland Road, Orlando FL 32835

2022-2023



# OLYMPIA HIGH SCHOOL

Olympia High School opened in 2001 and is one of 22 high schools served by Orange County Public Schools. Olympia High School is an urban school located in Orlando, Florida in Orange County. Olympia High School has 2850 students in grades 9-12. Olympia High has earned the 5-star School Award and the graduation rate for the class of 2021 was 98.7 percent.

## Our Mission:

Our mission is to provide an educational experience that extends to students, faculty, administrators and staff. All members of our school are engaged as life-long learners to improve skills and knowledge in an atmosphere of trust, effort and results.

## Our Vision:

Building a legacy of learners where success is measured by commitment, results and leadership.

## The School Day:

Seven periods are offered per daily with each class meeting for 50 minutes. All ninth, tenth, and eleventh grade students are required to take seven classes or the equivalent. Senior year course work will vary with each individual student, but we recommend that all seniors take a minimum of 6 classes or the equivalent.

## Principal's Message



Now over 20 years old, Olympia High School boasts a longstanding tradition of excellence. At the core of that tradition is a caring and committed teaching staff that provides many opportunities for student learning and success. It is our challenge to make high school as meaningful as possible to the 21<sup>st</sup> century student. We recognize that we must endeavor to meet the needs of a diverse population by creating opportunities for our motivated students while providing assistance to our students in need. To that end, our curriculum initiatives at the high school include Advanced Placement courses, college preparatory classes, career and technical classes, on-line courses, a strong student mentoring program, and a dedicated transition team.

We also feel strongly that getting students involved in something beyond the regular school day is integral to student success. One of the benefits of being a large high school is the number of opportunities we can offer for student involvement. Our student clubs and organizations, performing arts groups, and athletic teams offer students the chance to be part of something positive and rewarding.

The OHS family comprised of teachers, administrators, and support staff welcomes you to participate in your child's education. The success of students in both academic and extracurricular activities can only reach its fullest potential when we all work together. Please join us in making your child's high school experience a meaningful and rewarding one.

## ADMINISTRATION

Name	Title
Christy Gorberg	Principal
Jennifer Korkes	Assistant Principal
Thomas Hames	Assistant Principal
Jennifer Aprea	Assistant Principal
Ava Green	Assistant Principal
Travis Gabriel	Dean
Mark Kelley	Dean
Semei Tello Ponce	Dean
Russell Wambles	Athletic Director

## STUDENT SERVICES TEAM

Counselor	Alpha	Email
August Perrotti <i>Director of Guidance</i>	APEX, ACCESS Seniors: A	August.Perrotti@ocps.net
Diana Hernandez	ELL Seniors: Ca-Ce	Diana.Hernandez2@ocps.net
Dr. Angel Cepeda	A-Ch (grades 9-11 only) Grad Coach	Angel.Cepeda@ocps.net
August Perrotti	Ci – F Seniors: Be-BI	August.Perrotti@ocps.net
Mackenzie Catron	G-K Seniors: Bo-Br	Mackenzie.Catron2@ocps.net
Sasha Lopez	L-N Seniors: B-Ba	Sasha.Lopez@ocps.net
Jasmine Hollis	O-Sc	Jasmine.Hollis@ocps.net
Tanya Washington	Sd-Z Seniors: Ch	Tanya.Washington@ocps.net
Stephanie Johnson-Possell	College and Career Specialist	Stephanie.Johnsonpossell@ocps.net
Fidline Morris	Guidance Clerk	Fidline.Morris@ocps.net
Colette Reid	Registrar	Colette.Reid@ocps.net

## 2022-2023 OCPS School Calendar

Weekday(s)	Date(s)	Event
Tuesday-Tuesday	August 2-9	Pre-Planning August 3 Professional Development Day
Wednesday	August 10	First Day of School
Monday	September 5	Labor Day Holiday
Thursday	October 6	End of First Marking Period
Friday	October 7	October 7
Monday	October 10	Begin Second Marking Period
Friday	October 28	Teacher Professional Day/Student Holiday/Teacher Non-Workday
Monday-Friday	November 21-25	Thanksgiving Break
Friday	December 16	End of Second Marking Period
Two Weeks	December 19-January 2	Winter Break
Tuesday	January 3	Teacher Workday/Student Holiday
Wednesday	January 4	Begin Third Marking Period Begin Second Semester
Monday	January 16	Martin Luther King, Jr. Holiday (Schools and District Offices Closed)
Monday	February 20	Presidents' Day Holiday (Schools Closed/District Offices Open)
Thursday	March 9	End of Third Marking Period
Friday	March 10	Teacher Workday/Student Holiday
Monday-Friday	March 13-17	Spring Break (Schools Closed/District Offices Open)
Monday	March 20	Begin Fourth Marking Period
Friday	May 26	End of Fourth Marking Period/Last Day of School
Monday	May 29	Memorial Day Holiday (Schools and District Offices Closed)
Tuesday-Wednesday	May 30-31	Post-Planning

# GRADUATION REQUIREMENTS

Please refer to [FLDOE](#) for in-depth Florida graduation requirements.

- \*REQUIRED

English 4 Credits	Math 4 Credits	Science 4 Credits	Social Studies 4 Credits
English 1	Algebra 1*	Biology*	World History*
English 2	Geometry*	Science Credit	U.S History*
English 3	Math Credit	Science Credit	Government(.5)*
English 4	Math Credit		Economics(.5)*

Performing Arts	HOPE	General Electives
1 Credit	1 Credit Health/Physical Education or <a href="#">Sports Waiver</a>	8 Credits All additional courses will reflect as electives

World Language is NOT a graduation requirement but is **strongly** encouraged for Bright Futures and college acceptance requirements

## Testing Requirements

Students are required to PASS the Algebra 1 EOC and Grade 10 FSA Reading Assessment

- Concordant score options listed below

Required EOC's for 30% of final grade (do not have to "pass")

- Geometry, U.S History, and Biology

Algebra 1 EOC:

PSAT/NMSQT	430
SAT MATH	420
ACT MATH	16

Grade 10 FSA ELA:

SAT Evidenced Based Reading and Writing	480
ACT Average of English and Reading Subtests	18

# Testing Information

## ACT – American College Test

The ACT Program measures scholastic aptitude in English, mathematics, reading, and natural sciences. Optimum test dates are in the winter or spring of the junior year and again in the fall of the senior year if necessary. Results are provided to the high school and colleges and universities designated by the student. (Most universities and colleges will accept either SAT or ACT test scores, but the student should verify each college's policy.) Register at [www.act.org](http://www.act.org).

## SAT – Scholastic Assessment Test

The SAT is an objective test designed to measure how well students have developed their verbal, writing, and math skills. It is administered on various dates during the year, and fees are assessed. Optimum test dates are in the winter or spring of the junior year and again in the fall of the senior year if necessary. Results are provided to the student's home, high school, and specified colleges and universities. (Most universities and colleges will accept either SAT or ACT test scores, but the student should verify each college's policy.) Register at [www.collegeboard.com](http://www.collegeboard.com).

## PSAT /NMSQT – Preliminary Scholastic Assessment Test /National Merit Qualifying Test

The PSAT is a multiple-choice test that measures verbal and mathematical reasoning abilities. National Merit Finalists, National Achievement Scholars and National Hispanic Scholars are identified by taking the PSAT in their junior year. AP – Advanced Placement This test is required at the completion of an advanced placement course. The exam is administered in May and the results are mailed to the home, high schools, and specified colleges. Most colleges accept AP credit, but the student should verify each college's policy. For additional information about Advanced Placement, visit the College Board website at [apstudent.collegeboard.org](http://apstudent.collegeboard.org).

## ASVAB – Armed Services Vocational Aptitude Battery

The ASVAB is an excellent career assessment test measuring mechanical, clerical, verbal, and mathematical skills with a variety of short, timed multiple choice test items. It is administered to 10th -12th graders in the fall. The test can help identify occupations and skills for which students are best suited. There is no commitment to military service for students taking this test.

## PERT – Postsecondary Education Readiness Test

The Postsecondary Education Readiness Test (PERT) was developed by the Florida College System to provide information about the student's level of skill accomplishment in reading, writing, and mathematics. It is the entrance level exam used by all Florida community colleges to measure readiness for college level courses (ACT and SAT scores may be accepted in lieu of the PERT). In collaboration with Valencia College, we administer this

test in the spring of each school year to all juniors who are interested in attending college to measure college readiness. This test is required for Valencia dual enrollment. See your counselor for more information.

**EOC – End of Course Exams**

- Algebra 1 – MUST pass AND 30% of Final Course Grade
- Biology, Geometry, US History – 30% of Course Grade
- State Mandated Locally Constructed Exams – ALL other courses whose EOC is not dictated by a state or national exam - 20% of final course grade

## General Grading Information

### Cumulative Grade Point Average (GPA)

Cumulative GPA's are based on final grades only. This average is computed by dividing the total number of quality points earned by the total number of courses attempted.

<p><b>Unweighted</b> <i>GPA used for graduation &amp; course requirements</i></p>	<p><b>Weighted</b> <i>Honors</i></p>	<p><b>Weighted</b> <i>AP, Dual Enrollment, Vocational Courses</i></p>
<p>A = 4 B = 3 C = 2 D = 1 F = 0</p>	<p>A = 5 B = 4 C = 3 D = 1 F = 0</p>	<p>A = 6 B = 5 C = 4 D = 1 F = 0</p>

### High School Grade Forgiveness

[Florida Statute 1003.4282\(5\)](#) [Florida Statute 1003.4282\(5\)](#) indicates students who earn a grade of D or F in a class may retake that course or a similar course to improve their grade. The higher grade (C or better), will replace the D or F in the GPA. However, the original grade will remain on the transcript. Students who earned a C or below in a course in middle school, may also repeat for grade forgiveness.

### Class Rank

Class rank is calculated twice a year by OCPS for Juniors and Seniors. An official final rank is generated for seniors during the third marking period.

## Acceleration Coursework

Advanced Placement (AP) and Honors courses allow students the opportunity to take the most rigorous courses available in preparation for collegiate studies.

### Honors Courses Offered (30)

English	English I, English II, English III, English IV
Math	Algebra I, Geometry, Algebra II, Pre-Calculus
Science	Biology, Chemistry, Anatomy & Physiology, Physics, Marine Science, Agriculture Science
World Languages	Spanish III, Spanish IV, French III, Italian III, Latin III
Electives	Band V-VI, Chorus V-VI, Jazz Ensemble IV, Orchestra V-VI, Technical Theatre Design & Production IV, Theatre III-IV, Digital Design III, TV Production III-V, Ceramics 3, Creative Photography 3, Draw III, Art 2-D III

### Advanced Placement (AP)

The AP Program is a cooperative educational endeavor with the College Board. AP courses require extra reading and analysis time on the part of the student. AP exams are given during May, with scores of 1-5 being reported to colleges.

#### Why should I take AP classes?

- AP students learn essential time-management and critical thinking skills needed for a rigorous course load
- AP classes allow students the opportunity to earn college credit
- AP students may graduate college more quickly
- The most rigorous course load gives students a competitive advantage in college admissions

### Advancement Placement Courses Offered

English	English Language and Composition, English Literature and Composition
Math	Calculus AB, Calculus BC, Statistics
Science	Biology, Chemistry, Environmental Science, Physics C: Mechanics, Physics 1, Physics A&M, Computer Science Principles, Computer Science A
History/Social Science	Human Geography, World History, US History, US Government, Macroeconomics, Microeconomics, Comparative Government, Psychology, European History
World Languages	Spanish Language, Spanish Literature, French, Italian
Arts and Music	Art History, Drawing Portfolio, Studio-Art 2-D Design, Studio Art 3-D Design, Music Theory



## Advanced Placement (AP)

### AP Capstone Diploma Option and Certificate

The AP Capstone program required the completion of six AP courses, AP Seminar and AP Research must be included within the six. These two courses are uniquely aligned with core habits of mind, practices, and skills that research has identified as critical to college and career success.

AP Capstone Certificate	AP Capstone Diploma
<ul style="list-style-type: none"> <li>• Six AP courses, including:</li> <li>• AP Seminar</li> <li>• AP Research</li> <li>• AP exam score of 3 or higher on both AP Seminar and AP Research</li> </ul>	<ul style="list-style-type: none"> <li>• Six AP courses, including:</li> <li>• AP Seminar</li> <li>• AP Research</li> <li>• AP exam score of 3 or higher on both AP Seminar, AP Research, and four additional AP courses</li> </ul>

\*For more information about Advanced Placement, please visit the [College Board](#)

\*\*Please visit the [College Board: College Credit](#) for information about earning college credit with AP exam scores

## Dual Enrollment

Dual enrollment is an articulated acceleration mechanism open to secondary students who are attending public high school. To enroll in dual enrollment academic courses, students must demonstrate a readiness to successfully complete college level course work and have attained a qualifying grade point average. Students who participate in dual enrollment have the opportunity to earn both high school and college or technical education credit at the same time. Windermere High School offers several different programs with the requirements outlined below. If interested in dual enrollment, please visit with your counselor regarding application deadlines and course selections.

### Orange County Technical College

Why wait until graduation, when you can start earning college credit and prepare for your career today? Orange County Public Schools Career and Technical Education (CTE) Dual Enrollment program provides students with the opportunity to enroll in technical classes. Classes are offered in any of the three tech centers shown below.

- Mid-Florida Campus
- Orlando Campus
- Westside Campus

*Note: Bus transportation is provided free of charge to and from the tech centers.*

#### Requirements:

1. Entering the 11th or 12th grade
2. At least 16 years old by the time school starts
3. Good attendance and discipline record
4. 2.0 unweighted G.P.A.
5. On track for graduation - Consult with your School Counselor.
6. Room in schedule for 3 elective credits – Consult with your School Counselor.
7. Complete the Dual-Enrollment application process, usually begins in October.
8. Pick the program you are interested in and attend an orientation field trip to the tech center.
9. Complete Parent Permission Forms.

Students meeting all established requirements, may participate in extracurricular activities including the graduation ceremony. There is no tuition or charge for books, unless books are consumable. Lab fees, materials costs, equipment and/or uniform costs may apply.

## Dual Enrollment

Dual enrollment allows high school students to take college classes while they are still enrolled in high school. These classes count for both high school and college credit.

### Valencia College | University of Central Florida | University of Florida

#### Why should I take Dual Enrollment classes?

- Students have the opportunity to earn college credit
- Dual Enrollment helps students save on college costs
- Students could have the ability to earn their Associates in Arts (AA) degree while still being in high school
- Students have the opportunity to be exposed to rigorous curriculum

#### Dual Enrollment Opportunities

Please use the links below to research which dual enrollment program meets your individual needs. If interested in dual enrollment, please visit with your counselor or our Post-Secondary Specialist regarding application deadlines and course selections.

<p>Valencia College</p> 	<p><a href="https://valenciacollege.edu/admissions/dual-enrollment/public-school.php">https://valenciacollege.edu/admissions/dual-enrollment/public-school.php</a></p>
<p>University of Central Florida</p> 	<p><a href="https://www.ucf.edu/admissions/undergraduate/dual-enrollment-early-admission/">https://www.ucf.edu/admissions/undergraduate/dual-enrollment-early-admission/</a></p>
<p>University of Florida</p> 	<p><a href="https://dualenrollment.dce.ufl.edu/">https://dualenrollment.dce.ufl.edu/</a></p>

## Course Progression Flow Charts

OCPS curriculum follows FLDOE Next Generation Sunshine State Standards and Florida Standards. View these standards and related activities [HERE at CPALMS](#)

Students are not confined to these suggestions. Placement should be a decision that assures the success of all students as well as equal access and exposure to rigorous coursework. Although we encourage students to take rigorous coursework, please note that student experiences will vary and students should be guided into coursework that ensures academic success and attainment of post-secondary goals. Student placement should be reassessed each year with consideration given to course performance and FSA results.

**Click the links below for access to PDF files:**

[English Language Arts / Reading Course Progressions](#)

[Mathematics Course Progressions](#)

[Science Course Progressions](#)

[Social Studies Course Progressions](#)

# Olympia High School Course Offerings

## English Language Arts – ELA

### ENGLISH 1

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 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

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.

### ENGLISH 3 HONORS

The purpose of this course is to provide grade 11 students, using texts of high complexity, an advanced integrated language arts study in reading, writing, speaking, listening, and language in preparation for college and career readiness aligned with English 3, and at a greater depth. 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.

### ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

Junior year 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. Taking the College Board AP exam is a requirement.

#### **ENGLISH 4 COLLEGE CAREER PREP**

This course incorporates reading and writing study through writing a variety of informative texts using grade-level writing craft and through the in-depth reading and analysis of informational selections in order to develop critical reading and writing skills necessary for success in college courses. This course prepares students for successful completion of Florida college English courses. The benchmarks reflect the Florida Postsecondary Readiness Competencies necessary for entry-level college courses.

#### **ENGLISH 4 HONORS**

Aims for academic excellence in language arts through a program emphasizing British literature and proficiency in composition, ACT/SAT vocabulary, and ACT/SAT reading comprehension skills. Classic works provide a chronological study of British literature and reflection of the historical development of the English language. 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. This course is a deeper extension of English 4 with emphasis on literature, proficiency in composition, ACT/SAT vocabulary and reading comprehension skills.

#### **ADVANCED PLACEMENT ENGLISH LITERATURE/ COMPOSITION**

Senior year 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. Relates literature to contemporary experience and/or history. Taking the College Board AP exam is a requirement.

#### **English Electives**

#### **ADVANCED PLACEMENT CAPSTONE SEMINAR**

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**

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**

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; 3-7 HONORS**

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. Extracurricular participation is required with opportunities for travel outside the state of Florida for National-Circuit speech and debate competitions.

### **JOURNALISM 1-4; 5-6 HONORS**

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 staffs. Prepares students for Newspaper 2 or Yearbook 2.

### **YEARBOOK 2-4**

Provides frequent practice in gathering information and in writing feature articles. Offers practical application of layout and design. A yearbook is produced as part of class requirement. Advertising sales is a requirement.

## MATHEMATICS

### ALGEBRA 1

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). Algebra 1, Algebra 1 Honors, and Pre-AP Algebra prepare students for the same state EOC.

### GEOMETRY

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.

### GEOMETRY HONORS

This is the advanced version of the course required for a standard high school diploma in the state of Florida. This course is designed for students who excel in math and have a deep understanding of Algebra I. It includes reasoning and problem solving through formal proof and constructions. The relationships of Euclidean Geometry are used to increase the student's ability to reason abstractly. 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

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.

### ALGEBRA 2 HONORS

Honors Algebra 2 is a fast-paced, rigorous course. This course is a pathway to higher level mathematics. It is a prerequisite for Honors Pre-Calculus, with focus on preparation for the SAT. Foundational Algebra skills (ex. factoring, graphing, simplifying & solving equations with fractions) and academic responsibility are crucial for your success in this class. You will be building on your work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to



model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

### **MATHEMATICS FOR COLLEGE ALGEBRA**

In Mathematics for College Algebra, instructional time will emphasize five areas: (1) developing fluency with the Laws of Exponents with numerical and algebraic expressions; (2) extending arithmetic operations with algebraic expressions to include rational and polynomial expressions; (3) solving one-variable exponential, logarithmic, radical and rational equations and interpreting the viability of solutions in real-world contexts; (4) modeling with and applying linear, quadratic, absolute value, exponential, logarithmic and piecewise functions and systems of linear equations and inequalities; (5) extending knowledge of functions to include inverse and composition.

### **MATH FOR DATA AND FINANCIAL LITERACY**

In Mathematics for Data and Financial Literacy, instructional time will emphasize five areas: (1) extending knowledge of ratios, proportions and functions to data and financial contexts; (2) developing understanding of basic economic and accounting principles; (3) determining advantages and disadvantages of credit accounts and short- and long-term loans; (4) developing understanding of planning for the future through investments, insurance and retirement plans and (5) extending knowledge of data analysis to create and evaluate reports and to make predictions.

### **PRE-CALCULUS HONORS**

Topics include extension of polynomial functions, exponential functions, and logarithmic function. This course extends hyperbolic function and limits into calculus. It is a strong preparation for calculus.

### **ADVANCED PLACEMENT CALCULUS AB**

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 calculator. Taking the College Board AP exam is a requirement.

### **ADVANCED PLACEMENT CALCULUS BC**

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. Taking the College Board AP exam is a requirement.

**ADVANCED PLACEMENT STATISTICS**

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, anticipating problems using probability theory and simulation, and confirming models to make statistical inferences. Taking the College Board AP exam is a requirement

**SCIENCE****BIOLOGY 1**

Includes lab and textbook activities relating to such topics as cells, genetics, taxonomy, botany, zoology, human anatomy, and ecology.

**BIOLOGY 1 HONORS**

Topics include scientific methods, measurement, lab safety, biochemistry, cellular biology and reproduction, changes through time, classification/taxonomy, microorganisms and disease, botany, zoology, human anatomy, and physiology and ecological relationships.

**ADVANCED PLACEMENT BIOLOGY**

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. Taking the College Board AP exam is a requirement.

**ANATOMY & PHYSIOLOGY HONORS**

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.

**ASTRONOMY**

Astronomy is the scientific study of the contents of the entire Universe. This course introduces students to the composition and structure of the Universe.

**CHEMISTRY**

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.

### **CHEMISTRY HONORS**

A college preparatory chemistry course with a strong mathematical interpretation. Intended for students who plan to attend college majoring in math, science, medicine, engineering, or other science related professional fields. Topics for this course include chemical reactions, models of the atom, four naming systems, gases, thermochemistry, bonding, kinetics, equilibrium, and electrochemistry. Students must have successfully completed Algebra 1.

### **ADVANCED PLACEMENT CHEMISTRY**

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. Taking the College Board AP exam is a requirement.

### **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE**

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. Taking the College Board AP exam is a requirement.

### **MARINE SCIENCE HONORS**

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. Laboratory components will include, among other things, maintaining a salt-water aquarium and dissection of the crayfish, starfish, turtle, squid and shark.

**PHYSICS 1 HONORS**

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**

Prerequisites: Concurrently taking Precalculus or AP Calculus AB 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. Taking the College Board AP exam is a requirement.

**AP PHYSICS C: MECHANICS**

*Students should have already completed Pre-calculus.* This class is a calculus-based, introductory college-prep course. This class is especially appropriate for students planning to major in engineering or physical sciences. The following topics are explored: Newton's laws of motion; work, energy, and power; and circular motion and rotation.

**AP PHYSICS C: ELECTRICITY & MAGNETISM**

*Students should be concurrently enrolled in AP Physics C: Mechanics or have previously completed Mechanics.* This class is a calculus-based, introductory college-level physics course. The following topics are explored: electrostatics; electric circuits; magnetic fields and electromagnetism.

**SOCIAL STUDIES****ADVANCED PLACEMENT HUMAN GEOGRAPHY**

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. Specific topics with which students engage include the following: problems of

economic development and cultural change, consequences of population growth, changing fertility rates, and international migration, impacts of technological innovation on transportation, communication, industrialization, and other aspects of human life, struggles over political power and control of territory, conflicts over the demands of ethnic minorities, the role of women in society, and the inequalities between developed and developing economies, explanations of why location matters to agricultural land use, industrial development, and urban problems, the role of climate change and environmental abuses in shaping the human landscapes on Earth. Taking the College Board AP exam is a requirement.

## **WORLD HISTORY**

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**

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. Taking the College Board AP exam is a requirement.

## **UNITED STATES HISTORY**

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.

## **UNITED STATES HISTORY HONORS**

This course is a comprehensive 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. Historical analysis and interpretation are emphasized, and strong reading and writing skills are a necessity. This course has a mandated state End-of-Course exam and is required for graduation.

## **ADVANCED PLACEMENT UNITED STATES HISTORY**

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. Taking the College Board AP exam is a requirement.

## **ECONOMICS**

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.

## **ECONOMICS HONORS**

Provides students with a comprehensive understanding of societies, utilization of limited resources to satisfy unlimited wants, emphasizing principles of production, determination of prices, distribution of income, taxation, and monetary policy, role of government and economic problems of everyday life.

## **ADVANCED PLACEMENT MACROECONOMICS**

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. Taking the College Board AP exam is a requirement.

## **ADVANCED PLACEMENT MICROECONOMICS**

Advanced Placement Microeconomics follows the College Board guidelines to examine the principles that apply to the functions of individual economic decision-makers. Through the use of principles and models that describe economic situations students learn to predict and explain outcomes with graphs, charts, and data as

they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency. By exploring individual economic decision-making students get a real world understanding of local economics rather than national economics. Taking the College Board AP exam is a requirement.

### *Social Studies Electives*

#### **AFRICAN AMERICAN HISTORY / LAW STUDIES**

A course that examines the history and culture of the African American experience and the structures of our laws.

#### **ANTHROPOLOGY/SOCIOLOGY**

A course that examines group interaction and the beliefs, values, and behaviors of others.

#### **AP ART HISTORY**

The AP Art History course is equivalent to an introductory college course that explores topics such as the nature of art, art making, and responses to art.

#### **AP COMPARATIVE GOV / AP MICROECONOMICS**

AP Comparative Government compares economic/political challenges, trends, and characteristics across 6 countries. AP Microeconomics focuses on how the principles of economics affect individual decision makers.

#### **AP EUROPEAN HISTORY**

This college-prep course helps students cultivate their understanding of European history. Students will explore concepts like interaction of Europe and the world; cultural and intellectual developments; social organization and development; and national and European identity.

#### **AP PSYCHOLOGY**

Students will acquire an understanding of human behavior, behavior interaction and the progressive development of individuals. The content examined in the course includes major theories and orientations of psychology, psychological methodology, memory and cognition, human growth and development, personality, abnormal behavior/mental illness, and stress/coping strategies.

## PERFORMING ARTS

### BAND/CHORUS/GUITAR/ORCH

These classes are designed for students who wish to study the Violin, Viola, Cello, or String Bass (Orchestra) or Flute, Clarinet, Saxophone, Oboe, Bassoon, Trumpet, French horn, Trombone, Baritone, Tuba, Percussion (Band), or vocal performance (Chorus). There is a required fee to cover uniform rental, music rental, and travel costs.

### IMPROV

Improv is a form of live theatre in which the plot, characters, and dialogue of a scene or story are made up in the moment. Performance will be required.

### AP MUSIC THEORY / MUSIC THEORY

Students learn how music is constructed and developed, and acquire an understanding of the structural, technical, and historical elements of music. Student theorists develop basic ear-training, keyboard, and functional singing skills.

### DANCE

The intent of this course is to give students awareness and reverence for the physical body and its athletic and expressive capabilities. Students will experience these elements through the study of several styles of dance

## PHYSICAL EDUCATION

### FIRST AID/CARE & PREVENTION

*Students must have completed HOPE prior to class enrollment.* This course is designed to introduce students to the field of sports medicine and athletic training and includes a unit on CPR certification. Students will be able to assess and evaluate common injuries sustained during athletic activity.

### WEIGHTLIFTING

*Students must have completed HOPE prior to class enrollment.* This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. ... Students will learn the fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning.



## TECHNOLOGY

### AP COMPUTER SCIENCE PRINCIPLES

In this class, students will investigate how computing and technology influences the world around them by creatively addressing real-world issues and concerns, using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life.

### AP COMPUTER SCIENCE A

In this class, students will develop their understanding of coding through analyzing, writing, and testing code.

### ROBOTICS

Robotics is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots.

## VISUAL ARTS

### CERAMICS

Students explore how space, mass, balance, and form combine to create aesthetic forms or utilitarian products and structures. Students will work with clay and can expect to get their hands dirty!

### DIGITAL VIDEO PRODUCTION

Digital Video Production is a hands-on course. Students will learn script writing, camera operation, and video editing as they produce videos. As students' progress through the program, they will have the opportunity to apply for *Titan*

### DRAW

This course will provide a basic understanding of drawing techniques using different media. The focus of this course will be on drawing from observation with a variety of materials.

### FILM STUDIES

This course introduces students to the basics of film analysis, genre, and narrative structure to help students develop the skills to recognize, analyze, and enjoy film as an art form.

### DIGITAL MULTIMEDIA

Students will explore fundamental concepts of photography, design, and learn how to apply these concepts digitally. Students explore the foundations of art using photography techniques. This course includes digital

media and/or traditional photography. Student photographers will use digital cameras and will edit the photos via traditional and digital methods.

## WORLD LANGUAGE

### FRENCH, ITALIAN, PORTUGUESE, SPANISH

Two years of the same language is required for admission to most colleges. World language classes emphasize the development of the primary communication skills: speaking, listening, reading, and writing. Students will be expected to study vocabulary and participate in class.

## CAREER AND INDUSTRY

### PLTW BIOMEDICAL

This rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health.

### PLTW ENGINEERING

This program empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers' dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. medicine, physiology, genetics, microbiology, and public health.

### HOSPITALITY AND TOURISM

This program helps students chart career paths in one of the world's largest industries, from hotels to sports entertainment, and event management.

### ARMY JROTC

The JROTC program prepares Cadets for leadership roles, giving practical lessons that help them develop into active and engaged learners and leaders. The program promotes academic achievement and leadership development, providing Cadets with skills that they will use for the rest of their lives.

### BUILDING CONSTRUCTION

This course provides students with the experience of participating in various woodworking skill building projects. Introduces function and performance characteristics of basic building materials, components, methods, and sequences in the construction process.

## **STUDENT GOVERNMENT**

This program helps students plan, organize, prepare, and execute school and community events.

## **AGRISCIENCE 1 HON, AGRITECH 2, 3**

This course focuses on the global impact of agriculture, career opportunities, principles of leadership, and agribusiness. Lab-based activities are a large part of the class.

## **CULINARY ARTS**

This course provides students the experience of preparing quality food products and presenting them creatively; demonstrate safe, sanitary work procedures; understand food science principles related to cooking and baking; and utilize nutrition concepts when planning meals/menus.