

TIMBER CREEK HIGH SCHOOL
2024 – 2025 COURSE DESCRIPTIONS



Table of Contents

Introduction	3
Graduation Requirements	4
Credit Check Form.....	Error! Bookmark not defined.
Advanced Placement Courses	4
APC+ Program	5
Bright Futures Scholarship.....	6
SAT.....	7
ACT	7
Online Course Requirement	Error! Bookmark not defined.
Community Service Hours	7
Dual Enrollment (Valencia, UCF, UF)	7
Dual Enrollment - Orange County Technical College	9
2022-2023 Course Descriptions	10
English & Language Arts Courses.....	10
Mathematics Courses	16
Science Courses.....	20
Social Studies Courses.....	25
Foreign Language Courses	30
Elective Courses	32

INTRODUCTION



Marc Wasko
Principal

Karen Nielsen
Assistant Principal
of Instruction



Professional School Counselors



Jill Weems
A-Chd

Rhonda Stossel
Che-Gol



Farrah Litt
Gom-Lop

Marilina Simon-Savage
Loq-Pen



Angelica Atehortua
Peo-Sho

Dyionna Dierks
Shp-Z



Heather Ashby
A-L 504

Allison Howard
M-Z 504



Matthew Aliberti
College & Career Specialist

GRADUATION REQUIREMENTS

Please refer to the [FLDOE](#) for more in depth Graduation Requirements and Diploma Designations.

ADVANCED PLACEMENT COURSES

The Advanced Placement Program (AP) courses enables willing and academically prepared students to prepare college-level studies while still in high school. To earn college credit, students must earn a level 3 or higher on the corresponding standardized exam produced by College Board at the end of the year. The College/University that you will attend will be the institution to determine and award credit.

While the AP Program does supply a detailed set of expectations about the content of each college-level course that subject should cover – the AP teachers have the autonomy to design their own syllabi. This is one of the reasons why we created this course catalog that is specific to the courses that are offered at Timber Creek High School. Below you will find information from College Board and the corresponding AP teacher(s).

For in depth course descriptions and detailed standards that are taught, please refer to:

<https://apcentral.collegeboard.org/courses>



APC+ PROGRAM

The Advanced Placement Choice Program is a structured program for academically talented and highly motivated students. Our mission is to guide, to inspire and to recognize students who pursue a specific program of academic excellence. The AP Choice Program offers students academic challenges and introduces them to college-level work. Students entering the APC+ Program take several Pre-AP (APC+) courses in ninth and tenth grade to introduce them to the demands of college-level work and to prepare them for Advanced Placement classes. Throughout their high school years, APC+ students have the opportunity to earn college credits and/or advanced course placement in college. Students are required to complete a minimum of 6 total AP courses, a minimum of 1 AP course each year, and maintain an unweighted GPA of a 3.0.

Please review the below informational packet for detailed program information, frequently asked questions and the full application process.

The APC+ program is not a magnet program. Students must be zoned for Timber Creek High School to apply.

Please visit *tchs.ocps.net* → *Guidance* → *APC+ Program* for additional information.

Program Contact:

Dorothea.abromavage@ocps.net

Information Packet & Application is located on the School's website.

The application is for rising 9th graders ONLY. Students must apply to the program before entering the 9th grade at TCHS.

BRIGHT FUTURES SCHOLARSHIP

Complete your application during the Fall semester of your Senior Year

<https://www.floridastudentfinancialaidsg.org/SAPHome/SAPHome>

Below are the requirements for the graduating class of 2023 & 2024 for the Florida Academic Scholarship (FAS) & Florida Medallion Scholarship (FMS)

Type	16 High School Course Credits ¹	High School Weighted Bright Futures GPA	College Entrance Exams by High School Graduation Year (ACT®/CLT®/SAT®)	Volunteer Service Only	Paid Work Hours Only	Combination of Volunteer/Paid Hours
FAS	4 - English <i>(three must include substantial writing)</i> 4 - Mathematics <i>(at or above the Algebra I level)</i> 3 - Natural Science <i>(two must have substantial laboratory)</i>	3.50	2023-24 Graduates: 29/96/1340 2024-25 Graduates: 29/96/1340	100 hours	100 hours	100 hours
FMS	3 - Social Science 2 - World Language <i>(sequential, in same language)</i>	3.00	2023-24 Graduates: 25/84/1210 2024-25 Graduates: 25/84/1210	75 hours	100 hours	100 hours

SAT

www.collegeboard.org

ACT

www.act.org

COMMUNITY SERVICE HOURS

Community Service Hours are not required for high school graduation, however they are required for the Bright Futures Scholarship. The current requirements for Bright Futures are the following number of hours of community service:

- Florida Academic Scholarship – 100 hours of service OR 100 paid work hours
- Florida Medallion scholarship – 75 hours of service OR 100 paid work hours
 - Florida Gold Seal Vocational – 30 hours

Community service forms are located on the TCHS website under the student services tab:

https://timbercreekhs.ocps.net/guidance/community_service

DUAL ENROLLMENT (VALENCIA, UCF, UF)

Dual enrollment is an academic opportunity for qualified high school students to get a jump start on their college education. Students receive both high school and college credits for courses completed. Timber Creek High School counselors, teachers, and parents are key individuals to help students determine if they are mature and motivated to handle college level instruction. The amount of work necessary to succeed in college dual enrollment courses is usually much more rigorous and demanding than high school course.

Benefits of Dual Enrollment:

- Get a head start on earning college credit while simultaneously earning high school credits
 - Gain access to College resources and campus life
 - Explore interesting subjects through a variety of course offerings
- Engage with different instructional methods available: Classroom, Online, Mixed-mode
 - Experience the college atmosphere
 - Offset the cost of a college education
 - Add rigor to your transcript

VALENCIA COLLEGE

<https://valenciacollege.edu/admissions/dual-enrollment/>



<https://www.ucf.edu/admissions/undergraduate/dual-enrollment-early-admission/>



<https://dualenrollment.dce.ufl.edu/>

DUAL ENROLLMENT - ORANGE COUNTY TECHNICAL COLLEGE

Digital Application – available at [OTC APPLICATION](#)

Contact: Cheryl.donovan@ocps.net

- Are you a 10th or 11th grader?
- Do you have at least a 2.0 unweighted GPA?
- Are you currently on track for graduation?

If so...

**ORANGE TECHNICAL COLLEGE
DUAL ENROLLMENT MAY BE
THE PERFECT CHOICE FOR YOU!**

Benefits

- Attend classes at Orange County Technical College
- Earn college credit industry certifications and career skills
 - Most programs are AP weighted
 - Free bus transportation to and from Timber Creek
- Get a jump start on your desired career with over 25 programs to choose from
 - Many programs offer articulation credit to Valencia

Programs offered

3D Animation Technology	Automotive Collision Technology Tech
Accounting Operations	Administrative Office Specialist
Automotive Service Technology I	Computer-Aided Drawing & Modeling
CNC Production Specialist	Diesel Systems Technician
Digital Cinema Production	Digital Audio Production
Digital Media/Multimedia Design	Electricity
Digital Photography Technology	Mechatronics Technology
Enterprise Desktop & Mobile Support Technology	Major Appliance & Refrigeration Technician
Medical Assisting	Medical Administrative Specialist
Modeling Simulation Design	Modeling Simulation Production
Patient Care Assistant	Pharmacy Technician
HVAC	Lodging Operations
Machining Technologies	Fundamental Food Service Skills
Web Development	Welding Technology

2024-2025 COURSE DESCRIPTIONS

Honors and Advanced Level Course Note:

- Advanced courses require a greater demand on students through increased academic rigor. Academic rigor is obtained through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted. Students are challenged to think and collaborate critically on the content they are learning. Honors level rigor will be achieved by increasing text complexity through text selection, focus on high-level qualitative measures, and complexity of task. Instruction will be structured to give students a deeper understanding of conceptual themes and organization within and across disciplines. Academic rigor is more than simply assigning to students a greater quantity of work.

ENGLISH & LANGUAGE ARTS COURSES

English 1 Regular/Honors (1001310/20):

- The purpose of this course is to provide grade 9 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.
 - Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4977>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4970>

English 2 Regular/Honors (1001340/50):

- The purpose of this course is to provide grade 10 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.
- Students will take the 10th grade FSA ELA assessment that is required for graduation at the end of this course.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4978>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4971>

Cambridge AICE General Paper (English 3 Regular/Honors 1009400):

- The purpose of this course is to provide grade 11 students, the ability to understand and write in English through the study of a broad range of contemporary topics. They will analyze opinion and ideas and learn how to construct an argument. This course will focus on developing transferrable skills including: How to develop arguments and present reasoned explanations; a wider awareness and knowledge of current issues; independent reasoning, interpretation and persuasion skills; and the ability to present a point of view clearly and reflect upon those of others.

- Detailed course description is located:
 - <https://cpalms.org/PreviewCourse/Preview/15448> & <https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-general-paper-as-level-only-8021/>

English 4 Regular/Honors (1001400/10):

- 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.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4291>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4311>

AP English Language and Composition (1001420):

- The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

AP English Literature and Composition (1001430):

- The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

Freshman Composition 1 (ENC1101):

- Development of essay form, including documented essay; instruction and practice in expository writing. Emphasis on clarity of central and support ideas, adequate development, logical organization, coherence, appropriate citing of primary and/or secondary sources, and grammatical and mechanical accuracy. Gordon Rule course in

which the student is required to demonstrate college-level writing skills through multiple assignments.

- Detailed course description is located: <https://catalog.valenciacollege.edu/coursedescriptions/> .
- Students must apply & be accepted into the dual enrollment program (UCF, UF, Valencia). Please visit to college dual enrollment website for application and assessment deadlines.

Freshman Composition II (ENC1102):

- Emphasis on style; use of library; reading and evaluating available sources; planning, writing, and documenting short research paper. Gordon Rule course in which the student is required to demonstrate college-level writing skills through multiple assignments.
- Detailed course description is located: <https://catalog.valenciacollege.edu/coursedescriptions/>
- Students must apply & be accepted into the dual enrollment program (UCF, UF, Valencia). Please visit to college dual enrollment website for application and assessment deadlines.

AP Capstone Diploma Program:

- A diploma program from the College Board. It's based on two yearlong AP courses: AP Seminar and AP Research. Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
 - AP Capstone Seminar (1700500) – Year 1
 - AP Capstone Research (1700510) – Year 2

Journalism/Yearbook:

- The purpose of this course is to enable students to develop fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and to develop knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media. The content should include, but not be limited to, the following:
 - Demonstrating entry-level skills in telling stories and packaging them across the platforms/mediums of print, multimedia, online, and broadcast/radio;
 - Demonstrating fundamental skills in layout design, organization/management skills, and use of technology for the successful production of journalistic media;

- Using writing strategies to craft various forms of journalistic writing, including news writing, feature writing, sports writing, and editorial writing expressing ideas with maturity and complexity appropriate to writer, audience, purpose, and context;
- Using fundamental research skills and networking formats;
- Demonstrating awareness of the history of journalism and changes in the responsible and ethical use of information, including the use of print and non-print photojournalism; and
- Demonstrating awareness of the varied careers within the multiple formats of 21st century journalism.
- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4405>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Journalism 1	1006300	
Yearbook 1 Honors (Journalism 5)	1006331	Journalism 1
Yearbook 2 Honors (Journalism 6)	1006332	Yearbook 1 Honors (Journalism 5)
Yearbook 3 Honors (Journalism 7)	1006333	Yearbook 2 Honors (Journalism 6)
Yearbook 4 Honors (Journalism 8)	1006334	Yearbook 3 Honors (Journalism 7)

Speech & Debate:

- The purpose of this course is to develop students' beginning awareness, understanding, and application of language arts as they apply to oral communication concepts and strategies for public debate in a variety of given settings. The content should include, but not be limited to, the following:
 - Delivering and analyzing a variety of argument and debate formats such as
 - Lincoln-Douglas
 - team debate
 - extemporaneous
 - Delineating and evaluating the argument and specific claims in an oral or written text by
 - citing specific text evidence
 - assessing the validity of the evidence and soundness of the reasoning
 - determining the sufficiency of evidence for success
 - recognizing when irrelevant evidence or faulty reasoning is introduced
 - Demonstrating appropriate formal and informal public speaking techniques for audience, purpose, and occasion
 - eye contact and body movements

- voice register and choices of language
 - use of standard English
 - Using research and writing skills to support selected topics and points of view
 - across a range of disciplines
 - using a range of sources, including digital
 - Assessing the veracity of claims and the reliability of sources
 - determining different types of evidence (e.g., documentary evidence in the social sciences, experimental evidence in the realm of natural sciences)
 - determining reliable print and digital sources
 - Demonstrating use of techniques for timing and judging debates and other forensic activities
 - Collaboration amongst peers, especially during the drafting and practicing stages
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4411>
- Additional Information:
 - Meets during & outside of school hours
 - Debate requires minimum of 1 competition
 - Varsity Debate requires at least 4 tournaments. This is a large part of the students' grade
 - Ranked in the top programs nationally & are the top public school program in Central Florida. We belong to four different debate organizations.
 - Please contact: Victoria.sell@ocps.net for more information
 - Program Progression

Course Name	Course Number	Pre-Requisites
Debate 1	1007330	
Debate 2	1007340	Debate 1
Debate 3 Honors	1007350	Debate 2
Debate 4 Honors	1007360	Debate 3

Intensive Reading (1000410D):

- The purpose of this course is to provide instruction that enables students to accelerate the development of reading and writing skills and to strengthen those skills so they are able to successfully read and write grade level text independently. Instruction emphasizes reading comprehension, writing fluency, and vocabulary study through the use of a variety of literary and informational texts encompassing a broad range of text structures, genres, and levels of complexity. Texts used for instruction focus on a wide range of topics, including content-area information, in order to support students in meeting the knowledge demands of increasingly complex text. Students enrolled in the course will engage in interactive text-based discussion, question generation, and research

opportunities. They will write in response to reading and cite evidence when answering text dependent questions orally and in writing. The course provides extensive opportunities for students to collaborate with their peers. Scaffolding is provided as necessary as students engage in reading and writing increasingly complex text and is removed as the reading and writing abilities of students improve over time.

- This course is reserved for senior students that need to obtain a passing score the 10th grade FSA ELA assessment graduation requirement.
- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4968>

MATHEMATICS COURSES

Algebra 1 Regular/Honors (1200310/20):

- The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. 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 emphasizes the importance of algebra in everyday life through hundreds of real-world examples. Assessments are designed to ensure that your understanding goes beyond rote memorization of steps and procedures. Upon successful course completion, you will have a strong foundation in Algebra 1 and will be prepared for other higher-level math courses. This is a required math course for high school graduation.
- Detailed course description is located:
 - Regular- <https://www.cpalms.org/Public/PreviewCourse/Preview/10288>
 - Honors - <https://www.cpalms.org/Public/PreviewCourse/Preview/10290>

Geometry Regular/Honors (1206310/20):

- The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments.
- Pre-Requisite Course – Algebra 1
- Detailed course description is located:
 - Regular- <https://www.cpalms.org/Public/PreviewCourse/Preview/10293>
 - Honors - <https://www.cpalms.org/Public/PreviewCourse/Preview/10295>

Algebra 2 Regular/Honors (1200330/40):

- Building on their 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.
- Pre-Requisite Course –Geometry
- Detailed course description is located:
 - Regular- <https://www.cpalms.org/Public/PreviewCourse/Preview/3695>
 - Honors - <https://www.cpalms.org/Public/PreviewCourse/Preview/10341>

Probability & Statistics with Applications Honors (1210300):

- Students will be introduced to exploring data, sampling and experimentation by planning and conducting studies, anticipating patterns using probability and simulation, and employing statistical inference to analyze data and draw conclusions.
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/10360>
- Pre-Requisite Course – Algebra 2

AP Statistics (1210320):

- The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – Probability & Statistics with Applications Honors

Pre-Calculus Honors (1202340):

- The purpose of this course is to enable students to develop concepts and skills in advanced algebra, analytic geometry, and trigonometry.
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/10352>
- Pre-Requisite Course – Algebra 2

AP Pre-Calculus (1202305)

- In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world.
AP Precalculus prepares students for other higher-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.
- Pre-Requisite Course – Algebra 1 Honors, Geometry Honors, Algebra 2 Honors

AP Calculus AB (1202310):

- AP Calculus AB and AP Calculus BC focus on students' understanding of calculus concepts and provide experience with methods and applications. Through the use of big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), each

course becomes a cohesive whole, rather than a collection of unrelated topics. Both courses require students to use definitions and theorems to build arguments and justify conclusions. The courses feature a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Exploring connections among these representations builds understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems. A sustained emphasis on clear communication of methods, reasoning, justifications, and conclusions is essential. Teachers and students should regularly use technology to reinforce relationships among functions, to confirm written work, to implement experimentation, and to assist in interpreting results.

- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – Pre-Calculus

AP Calculus BC (1202320):

- AP Calculus AB and AP Calculus BC focus on students' understanding of calculus concepts and provide experience with methods and applications. Through the use of big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), each course becomes a cohesive whole, rather than a collection of unrelated topics. Both courses require students to use definitions and theorems to build arguments and justify conclusions. The courses feature a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Exploring connections among these representations builds understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems. A sustained emphasis on clear communication of methods, reasoning, justifications, and conclusions is essential. Teachers and students should regularly use technology to reinforce relationships among functions, to confirm written work, to implement experimentation, and to assist in interpreting results.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – AP Calculus AB

Mathematics for Data & Financial Literacy Regular/Honors (1200384/88):

- In Mathematics for Data and Financial Literacy Honors, 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.
- Detailed course description is located: <https://cpalms.org/PreviewCourse/Preview/22382> and <https://cpalms.org/PreviewCourse/Preview/20568>
- Pre-Requisite Course –

- Regular level – Algebra 1 & Geometry
- Honors level – Algebra 1 Honors, Geometry Honors & Algebra 2 Reg/Hon recommended

Mathematics for College Algebra Regular (1200710)

- 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.
- Detailed course description is located: <https://cpalms.org/PreviewCourse/Preview/22459>
- Pre-Requisite Course: Algebra 1, Geometry, (Algebra 2 recommended)

SCIENCE COURSES

Environmental Science Regular/Honors (2001340/41):

- Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that at the high school level, all students should be in the science lab or field, collecting data every week. School laboratory investigations (labs) are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models (NRC, 2006, p. 3). Laboratory investigations in the high school classroom should help all students develop a growing understanding of the complexity and ambiguity of empirical work, as well as the skills to calibrate and troubleshoot equipment used to make observations. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data (National Research Council, 2006, p.77; NSTA, 2007).
- Detailed course description is located:
<https://cpalms.org/PreviewCourse/Preview/21067>

Biology Regular/Honors (2000310/20):

- The Biology course guides students through the study of living and non-living systems and how they interact with one another. Students explore the world they live in by posing questions and seeking answers through scientific inquiry. Discovery takes place through observation and data collection. Students will be introduced to the structure, function, diversity, and evolution of living matter. This is a course with real relevance. It encourages curiosity and provides opportunity for students to complete hands-on lab activities and develop relationships through learning collaboratively. This is a required science course for high school graduation.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4258>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4263>

AP Biology (2000340):

- AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors.
- AP Biology includes those topics regularly covered in a college introductory biology course and differs significantly from the standards-based, high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the kind of

laboratory work performed by students, and the time and effort required of the students. The textbook used by AP Biology is also used by college biology majors and the kinds of labs done by AP students are equivalent to those done by college students. AP Biology is a course that aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This course is designed to prepare students for the Biology College Board Advanced Placement Exam. AP Biology is designed as a second year biology class. If you are choosing to take this class as a freshman, then realize you are choosing to jump directly into a college class. The pace of the class and the rigor of the class cannot be changed since the curriculum is dictated by the College Board. Your teacher will be relying on you to have a strong grasp of the information that you gained in your middle school life science class. For this reason, AP Biology tends to be more challenging for freshmen than for upperclassmen who have already had high school biology. There are freshmen who do really well in this class but they are 100% committed to going well above and beyond the work level of a typical biology class. Freshmen have the most difficulty with note taking skills, study skills and being able to read for understanding a college level textbook.

- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

AP Environmental (2001380):

- The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – Biology

Chemistry Regular/Honors (2003340/50):

- This course provides a foundation for learning chemistry concepts. Students use scientific inquiry and higher-order problem solving as they explore the composition, properties, and changes of matter and their applications through interactive simulations, engineering solutions, and virtual and hands-on experiences. Scientific inquiry, research, experimental procedures, data collection and analysis, and making inferences are an integral part of the learning experience. In addition, technology, engineering, and mathematics (STEM) concepts are integrated throughout the course. Through phenomenon-based learning, students will be able to demonstrate a vast understanding of the importance of chemistry in the world, enabling them to apply these principles to their everyday lives and our global society.

- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4360>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4380>
- Pre-Requisite Course –Algebra 1 & Biology

AP Chemistry (2003370):

- The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

Physics 1 Regular/Honors (2003380/90):

- Discover the contributions of geniuses like Galileo, Newton, and Einstein by learning about the concepts, theories, and laws that govern the interaction of matter, energy, and forces. From tiny atoms to galaxies with millions of stars, the universal laws of physics are explained through real-world examples. Using laboratory activities, simulations, images, and interactive elements, students follow in the footsteps of some of the world’s greatest thinkers.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4401>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4317>

AP Physics Course Offerings: College students taking physics are guided down one of two paths. Those planning on careers in physics and engineering need physics with calculus. Those planning on STEM careers outside of those disciplines usually need physics with algebra. Even if you are not sure about your final career pathway, physics opens the doors to many options in the future.

- AP Physics C Mechanics (First year of physics with calculus) and AP Physics C Electricity and Magnetism (second year of physics with calculus) are for students who are going to use calculus based physics. Students starting enrollment in AP Physics C Mechanics should be enrolled in their first year of AP calculus or done with it.
- AP Physics Year 1 (algebra based) and AP Physics Year 2 (algebra based) are for students who are considering STEM careers outside of physics and engineering. Students starting enrollment in AP Physics Year 1 should have completed Algebra 1 and Geometry. They should be enrolled in Algebra 2 or an equivalent course.

AP Physics 1 (2003421):

- AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – Recommend to have completed Algebra 2

AP Physics 2 (2003422):

- AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – AP Physics Year 1

AP Physics C: Mechanics (2003430):

- AP Physics C: Mechanics is a calculus-based, college-level physics course. Intended for potential Engineering majors. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – Must have completed Pre-Calculus & enrolled in AP Calculus AB

AP Physics C: Electricity & Magnetism (2003425):

- AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – Must have completed or be enrolled in AP Calculus & completed AP Physics C: Mechanics

Anatomy & Physiology Regular/Honors (2000350/60):

- Explore the organization of the human body and how it works. Acquire knowledge necessary to understand what the body is doing and how you can help the body cope

with many different situations. Body systems will be studied in order to understand how their structure, location, and function allow for interaction with other parts of the body.

- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4288>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4290>
- Pre-Requisite Course –Algebra 1 & Biology

Marine Science Regular/Honors (2002500/10):

- Since the beginning of time, humans have relied on the ocean. But as our planet continues to change over time, human activity has impacted the environment. In the marine science course, students will explore the watery depths of our own planet and understand just how vital the ocean is to our existence. Throughout the course, students will meet marine animals and see how they interact with each other and their environment. They will tour the evolving seafloor and see trenches, volcanoes, and ridges, just to name a few. Along the way, students will hang ten as they discover waves, currents, tides, and other physical interactions between the ocean and the land. Finally, students will study the impacts of chemical processes on our blue planet and how they affect the water, the atmosphere, and even our climate. With a focus on conservation, this course will show students that the ocean connects us all, across distance and even time. Hang on—it's going to be an amazing journey.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4334>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4337>
- Pre-Requisite Course –Algebra 1 & Biology

Astronomy 1 Honors (2020910):

- Journey through the universe on a stellar exploration through space and time. Discover ancient astronomy and the instruments used to investigate the properties and motion of celestial objects. Examine the different characteristics of each planet in our solar system, including atmospheric conditions, moons, and rings. Discover the small solar bodies that are moving throughout our solar system. Learn about stellar properties based on starlight and the life cycle of stars. Explore the far reaches of our universe by studying galaxies, and the clues they leave us about the early universe. Lastly, learn about cosmology, including theories and concepts about our early universe, and its possible fate. Some mathematical applications will be applied at various times. This course is recommended for 11th and 12th-grade students.
- Detailed course description is located:
 - <https://www.cpalms.org/PreviewCourse/Preview/4252>
- Pre-Requisite Course - Biology

SOCIAL STUDIES COURSES

World History Regular/Honors (2109310/20):

- This course is a continued in-depth study of the history of civilizations and societies from the middle school course, and includes the history of civilizations and societies of North and South America. Students will be exposed to historical periods leading to the beginning of the 21st Century. So that students can clearly see the relationship between cause and effect in historical events, students should have the opportunity to review those fundamental ideas and events from ancient and classical civilizations.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4473>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4488>

AP World History (2109420):

- In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 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 connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

United States History Regular/Honors (2100310/20):

- The primary content emphasis for this course pertains to the study of United States history from Civil War & Reconstruction to the present day. Students will be exposed to the historical, geographic, political, economic and sociological events which influenced the development of the United States and the resulting impact on world history. So that students can clearly see the relationship between cause and effect in historical events, students should have the opportunity to review those fundamental ideas and events which occurred before the end of Reconstruction.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4475>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4495>
- Pre-Requisite Course – World History

AP United States History (2100330):

- 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 and methods employed by historians: analyzing primary

and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. 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: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – World History

Dual Enrollment American History (AMH2010 & AMH2020):

- AMH2010: UNITED STATES HISTORY TO 1877 Survey of early United States history, emphasizing political, social, and economic developments. Examines such topics as colonization, slavery, American Revolution, U.S. Constitution, War of 1812, emancipation movement, Civil War and Reconstruction.
- AMH2020: U.S. HISTORY 1877 TO PRESENT Survey of United States history from the Gilded Age to the present, emphasizing political, social, and economic developments. Examines such topics as expansion, Populist and Progressive movements, Great Depression, the World Wars, reform and dissent in the 1960s and the Vietnam conflict.
- Detailed (Valencia) course description is located: <https://catalog.valenciacollege.edu/coursedescriptions/> Students must apply & be accepted into the dual enrollment program (UCF, UF, Valencia). Please visit to college dual enrollment website for application and assessment deadlines.
- Pre-Requisite Course – World History

United States Government (2106310/20):

- The primary content for the course pertains to the study of government institutions and political processes and their historical impact on American society. Content should include, but is not limited to, the functions and purpose of government, the function of the state, the constitutional framework, federalism, separation of powers, functions of the three branches of government at the local, state and national level, and the political decision-making process.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4598>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4611>
- Pre-Requisite Course – United States History

AP United States Government & Politics (2106420):

- AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and

visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – United States History

Economics Regular/Honors (2102335/45):

- The primary content emphasis for this course pertains to the study of the concepts and processes of the national and international economic systems. Content should include, but is not limited to, currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economic theories and economists, the role and influence of the government and fiscal policies, economic measurements, tools, and methodology, financial and investment markets, and the business cycle.
- Detailed course description is located:
 - Regular: <https://www.cpalms.org/Public/PreviewCourse/Preview/4740>
 - Honors: <https://www.cpalms.org/Public/PreviewCourse/Preview/4451>
- Pre-Requisite Course – United States History

AP Macroeconomics (2102370):

- AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. This class is about Gross Domestic Product (GDP) and the three different states of an economy (Recession, full employment and inflation gaps). The class covers how government influences economy policies to impact GDP and create jobs. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – United States History

AP Microeconomics (2102360):

- AP Microeconomics is a college-level course that introduces students to the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. This class is about the four different firm types and how to identify them. The class examines how each firm type handles production of an

item and compares production cost to return. Students that have an interest in a business degree should consider taking AP Micro. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – United States History

AP Comparative Government (2106430):

- AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. It is a .5credit course. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses/ap-comparative-government-and-politics>

AP Human Geography (2103400):

- This is a full year AP course that focuses on gaining a spatial or geographic understanding of our world. It explores the ways in which civilizations are shaped by their geographic circumstances and how they in turn reshape the earth to suit their needs. Students considering this course should be prepared to study nightly in order to be successful on both the in class assessments as well as the AP Exam in May. The course explores the following 7 topics over the course of the school year:
 - Geographic basics using the tools geographers use to shape their understanding of the human/environment connection.
 - Changes in population and migration patterns in the past, present, and future.
 - Cultural differences and globalization among societies including culture, language, and religion.
 - Ethnic and political unity and divisions among nations and States.
 - Modern and developing agriculture practices used to feed the global population.
 - Industry and development levels of the world's countries and the global divide in wealth and health.
 - Urban planning and development of our cities, suburbs, and rural areas.
- Linked below are two excellent videos that explains the course:
 - <https://youtu.be/E0UrzowWKEs>
 - This one explains the 7 units of study ranging from population & migration concerns to urbanization & development level. <https://youtu.be/DnA2P-kKiBc>
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

AP European History (2109380):

- In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 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 connections; and utilizing reasoning about comparison, 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: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

AP Psychology (2107350):

- Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. You'll examine the concepts of psychology through reading and discussion and you'll analyze data from psychological research studies. Skills that you will learn:
 - Connecting psychological concepts and theories to real-life scenarios
 - Understanding and interpreting data
 - Analyzing research studies in psychology
- Detailed course description is located: <https://apstudents.collegeboard.org/courses/ap-psychology>

Philosophy Honors (2120910):

- The primary content emphasis for this course pertains to the study of the definition and historical application of philosophy. Content should include, but is not limited to, the study of classical and modern philosophies, the fundamental principles of philosophical thought, such as semantics, logic, inductive and deductive reasoning, and major figures of social, political and religious philosophies.
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4464>

Holocaust Honors (2100405):

- The primary content emphasis for this course pertains to the examination of the events of the Holocaust (1933-1945), the systemic, planned annihilation of European Jews and other groups by Nazi Germany. Content will include, but is not limited to, the examination of twentieth century programs and of twentieth century and twenty-first century genocides, investigation of human behavior during this period, and an understanding of the ramifications of prejudice, racism and stereotyping.
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/14361>

FOREIGN LANGUAGE COURSES

German:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
German 1	0702320	
German 2	0702330	German 1
German 3 Honors	0702340	German 2
German 4 Honors	0702350	German 3 Honors
AP German Language	0702380	German 4 Honors

Spanish:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Spanish 1	0708340	
Spanish 2	0708350	Spanish 1
Spanish 3 Honors	0708360	Spanish 2
Spanish 4 Honors for Spanish Speakers	0709330	Teacher Placement Only
AP Spanish Language	0708400	Spanish 3 or 4
AP Spanish Literature	0708410	AP Spanish Language

Latin:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Latin 1	0706300	
Latin 2	0706310	Latin 1
Latin 3 Honors	0706320	Latin 2

Latin 4 Honors	0706330	Latin 3
----------------	---------	---------

French:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
French 1	0701320	
French 2	0701330	French 1
French 3 Honors	0701340	French 2
AP French Language	0701380	French 3

American Sign Language:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
American Sign Language 1	0717300	
American Sign Language 2	0717310	ASL 1
American Sign Language 3 Honors	0717312	ASL 2

Chinese:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Chinese 1	0711300	
Chinese 2	0711310	Chinese 1
Chinese 3 Honors	0711320	Chinese 2
Chinese 4	0711330	Chinese 3
AP Chinese	0711340	Chinese 4

ELECTIVE COURSES

Vet Assisting:

- Students will work with animals and learn the ins and outs of veterinary medicine. Includes hands-on activities, related field trips and animal interactions that help you pursue your animal career goals. Advanced classes give you the opportunity to work in our Vet Clinic lab
- Contact: Zuleika.hubble@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Vet Assist 1 Honors	8111510	
Vet Assist 2 Honors	8111540	Vet Assist 1 H
Vet Assist 3 Honors	8111550	Vet Assist 2 H
Vet Assist 4 Honors	8111520	Vet Assist 3 H

Agriscience:

- Students will learn about agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; basic plant science as well as greenhouse care and propagation techniques; environmental principles; agricultural safety; principles of leadership (FFA); animal science in regards to the use of animals in agriscience and agribusiness. Laboratory-based activities are an integral part of this course.
- Contact: Dallas.Haarmann@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Foundations of Agriscience Honors	8106810	
Introduction to Horticulture Honors	8121510	Foundations of AgriScience Honors
Horticulture Science 3 Honors	8121520	Introduction to Horticulture Honors
Animal Science 2	8106210	Foundations of AgriScience Honors
Animal Science 3	8106220	Animal Science 2
Animal Science 4	8106230	Animal Science 3

Biomedical Science – Project Lead The Way:

- Series of 4 rigorous science subjects such as human medicine, physiology, oncology, molecular genetics, microbiology, and public health. Each course focuses on laboratory skills through use of new technology & helps students solve real world problems.
- The 3rd level of this course offers industry certification through University of Florida.
- Contact: anna.stevens2@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Principles of BioMedical Sciences Honors	8708110	Must be in biology honors concurrently or higher (No Juniors or Seniors)
Human Body Systems Honors	8708120	Principles of BioMedical Honors or (If in 11 th completed AP Psychology, Anatomy & Physiology Honors, or AP Biology) or (If in 10 th completed AP Biology)
Medical Interventions Honors	8708130	Human Body Systems Honors or (Teacher Recommendation sent to Mrs. Stevens & completed AP Biology or AP Chemistry for rising 11 th or 12 th)
Biomedical Innovation Honors	8708140	Medical Interventions Honors

Business Management:

Course Name	Course Number	Pre-Requisites
Digital Information Technology	8207310	
Business & Entrepreneurship Principles	8215120	Digital Information Technology (can take concurrently with Digital Information Technology)
Accounting Applications I Honors	8203310	Digital Information Technology & Business Entrepreneurship Principles (can take concurrently with Business Entrepreneurship Principles)

Digital Information Technology (8207310)

- Provide an introduction to information technology concepts and careers as well as the impact I.T. has on the world, people, and industry and basic web design concepts. The content includes information technology career research; operating systems and software applications; electronic communications including e-mail and Internet services; basic

HTML, DHTML, and XML web commands and design; emerging technologies, and Web page design. *This serves as a prerequisite for future business classes.

- Contact: Julianne.Calcote@ocps.net

Business & Entrepreneurship Principles (8215120):

- Provides an introduction to business organization, management, and entrepreneurial principles. Topics include communication skills, various forms of business ownership and organizational structures, marketing, supervisory/management skills, leadership skills, human resources management activities, business ethics, and cultural diversity. Students will develop a business plan for a business they are interested in running. There will also be a Shark Tank Competition
- Pre-Requisite Course – Digital Information Technology (can take concurrently)
- Contact: Teresa.Pierce@ocps.net

Accounting Applications 1 (8203310):

- This course emphasizes the methods and principles of recording business transactions; the preparation of various documents used in recording income, expenses, acquisition of assets, incurrence of liabilities, and changes in equity; and the preparation of financial statements. Students will also be learning the accounting software - Intuit QuickBooks throughout the year.
- Pre-Requisite Course – Digital Information Technology & Business Entrepreneurship Principles (can take concurrently with Business Entrepreneurship Principles)
- Contact: Teresa.Pierce@ocps.net

Addition Financial High School Internship (8300430):

- Our student tellers are Addition Financial employees. They're the point person for members at our on-campus branches. As a student teller, you'll be trained just like tellers at banks and credit unions, and you'll handle many of the same everyday tasks. You'll talk to members about their finances, open accounts, handle transactions and so much more.
- Why should you do it? Receive a 1 credit elective course and boost your college app; Gain work experience in the financial industry; Learn real-world workforce skills; Paid summer internship opportunities; Part-time and full-time job opportunities upon graduation; Annual scholarship program for graduating high school members attending school in Florida.
- Contact: Frederick.CintronRivera@ocps.net
- Pre-Requisite Course – Digital Information Technology (can take concurrently with DIT) & required summer training

Business Cooperative Education – OJT (8200410):

- The purpose of this course is to provide the on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: a training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of

on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.

- Contact: Frederick.CintronRivera@ocps.net
- Pre-Requisite Course – Digital Information Technology (can take concurrently with DIT) & application required

Cyber Security

- This program is a dual enrollment program with Orange Technical College and Valencia College. You will have the opportunity to earn TestOut and CompTIA industry certifications, Valencia College credit hours, Orange Technical College and Valencia College certificates. These courses are equivalent to college level courses, requiring a lot of work and study.
- The first year you will learn to install, configure, and troubleshoot computer hardware, operating systems, storage, system implementation and management, file management, peripheral devices, networking, mobile devices, printing, and security.
- The second year you will learn to install, configure, and troubleshoot network cabling and hardware devices, network addressing and services, Ethernet, Firewalls and intrusion detection, switching and routing, wireless networking, wide area networks, network security, and network troubleshooting.
- The third and fourth year, you will be taking Valencia College courses online.
- **First Year:**
 - Semester 1: Information Technology Fundamentals
 - Semester 2: Computer Hardware
- **Second Year:**
 - Semester 1: Computer Software
 - Semester 2: Computer Network
- **Third and Fourth Year:**
 - Valencia College courses online
- Contact: Richard.matias@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
Cyber Security - Year 1	9001310K/L 9001320K/L	

Information Technology Fundamentals		
Cyber Security - Year 2 Computer Hardware & Software	9001330K/L & 9001340K/L CTS0019K/L	Year 1
Cyber Security - Year 3 Network Administration	Valencia – Dual Enrollment	Year 2 & Summer course requirement
Cyber Security - Year 4 Network Security	Valencia – Dual Enrollment	Year 3

Information Technology/Computer Science

- AP Computer Science Principles (1st course taken in the program): Students will be introduced to the creative aspects of programming, abstractions, algorithms, large data sets, the internet, cybersecurity concerns, and computing impacts. This course will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Computer Science is about creativity, problem solving, and troubleshooting. The course requires a significant amount of expository writing, research papers, as well as writing computer code in JavaScript. It's important that students understand that any significant computer science course builds on a foundation of mathematical and computational reasoning that will be applied throughout the study of the course. The assessment questions are designed to test the student's skills and abilities to apply learned knowledge, including coding, in solving problems. Freshmen who plan on taking AP CSP must be in honors (or APC+) English 1. Recommended summer reading: go to code.org and getting familiar with the curriculum.
- Contact: daniel.foster@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
AP Computer Science Principles	0200335	Freshman in English Honors, 10-12 can be Regular English
Foundation of Programming	9007210	AP Comp Science Principles
Procedural Programming	9007220	Foundations of Programming or AP Comp Science A
Object Oriented Programming	9007230	Procedural Programming

Business Computer Programming 1 & 2	8206010/20	Teacher Approval Only
AP Computer Science A	0200320	complete 3 Math with A's and B's OR AP Computer Science Principles

Engineering – Project Lead the Way:

- These courses apply math, science, and technology to solve complex, open-ended problems in real-world context. Students focus on the process of defining & solving a problem, not getting the “right” answer. They learn how to apply STEM knowledge, skills and habits of mind to make the world a better place through innovation
- Contact: Jennifer.kane@ocps.net or alex.kane@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
Intro to Engineering Design Honors	8600550	Course #1 - recommended to have Algebra 1 EOC passed
Engineering Design & Development Honors	8600650	Course #2 - IED & recommended to have Algebra 1 EOC passed
Digital Electronics Honors	8600530	Course # 2 - IED, recommended to have Geometry completed
Principles of Engineering Honors	8600520	Course # 2 - IED, recommended to have Algebra 2 completed & enrolled in Pre-Calculus or higher
Comp. Integrated Manufacturing Honors	8600560	IED, POE
Aerospace Engineering Honors	8600620	IED, POE
Advanced Technology Applications Honors (Robotics Team)	8601900	Robotics team. Completed CIM or AE. Audition and teacher approval required.

Introduction to Engineering Design - Honors (IED)

Prerequisites: Successful completion of Algebra 1 (including EOC exam) or higher math

Designed for 9th or 10th grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems. Students will have multiple opportunities to sit for an industry certification exam in this course. Students are expected to have earned at least one industry certification before advancing further into the engineering program.

Engineering Design and Development - Honors (EDD)

Prerequisites: IED; Successful completion of Algebra 1 (including EOC exam) or higher math

Designed for 9th or 10th grade students. This course provides students with the opportunity, to develop a project from "vision" to "reality". Project topics include basic robotics, microcontrollers, basic circuits, mechanisms, GIS, and 3D modeling.

Digital Electronics - Honors (DE)

Prerequisites: IED; Successful completion of Geometry (including EOC exam) or higher math; Autodesk Certification

This course is designed for 10th or 11th grade students. Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, coding, and technical documentation.

Principles of Engineering - Honors (POE)

Prerequisites: IED; Concurrent enrollment in Pre-Calculus, College Algebra, or higher math; Autodesk Certification

Designed for 10th or 11th grade students, this survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, robotics, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions. Students will have the opportunity to sit and are expected to earn their REC Robotics Industry Certification in this course.

Computer Integrated Manufacturing - Honors (CIM)

Prerequisites: IED and POE

Designed for 11th or 12th grade students. This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included.

Aerospace Engineering - Honors (AE)

Prerequisites: IED and POE

This course is designed for 11th or 12th grade students. AE explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design, and build aerospace systems.

Advanced Technology Applications

Prerequisites: Application and Teacher Approval to join the TCHS Robotics Team

Requirements: Must be an active PLTW engineering student at TCHS. Must be willing to devote extra free time outside of the classroom to ensure the success of the team. Must be willing to put the robotics team first and above all other extracurricular activities. Must have above average grades in all classes.

The TCHS Robotics team has competed in the FRC, FTC, and VEX competitions, and currently participates exclusively in the VEX Robotics Competition where they've competed at the world championship level. Students form teams that design, construct, and operate robots to perform tasks specific to the season's game. A successful robotics team requires members who are eager to learn, know how to troubleshoot, work well together, have technical skills (e.g. programming, electronics, mechanical), and, most importantly, HAVE TIME to devote to the team.

Model, Game & Simulation:

- This college level course provides introduction of the dynamic field that is utilized in engineering, science, health care, business, education, training and many other disciplines. Due to its dynamic nature, the Model & Simulation field has tremendous potential for creating student interest in science, technology, engineering, and mathematics (STEM) disciplines. Content includes, but is not limited to, history of the industry, algorithms, operating systems, geospatial technologies (i.e. GPS, GIS, remote sensing), gaming,

medical and scientific imaging, animation, artificial intelligence, engineering drawing, transportation, distribution, warehousing, 2 dimensional & 3 dimensional asset creation, and architectural drawing. Opportunity to earn Industry Certifications in Adobe Photoshop, Adobe Illustrator, and Unity Artist.

- Contact: jonathon.frankos@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
Modeling & Simulation Technician	CTS0770K/L	None
Modeling and Simulation 2D Artist – Year 2 - Double Block	CTS0771K/L & CTS0771M/N	Model and Simulation Tech
Modeling & Simulation – Year 3 – Double Block	CTS0772K/L & CTS0772 M/N	Model & Sim 2D Artist

Digital Photography:

- The purpose of this program is to prepare students for careers in the photography industry. This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Arts, A/V Technology and Communication 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 Arts, A/V Technology and Communication career cluster. The content includes, but is not limited to, communication skills, leadership skills, human relations and employability skills, safe and efficient work practices, and the use of digital cameras techniques, commercial and industrial applications with emphasis on composition and color dynamics, printing, workflow, software and use, care, and maintenance of photographic equipment.
- Contact: Blair.Szeto@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
Photographic Specialist1 PS Year 1	PGY0190K/PGY0190L	(Offered 10 th & 11 th)
Photography Technician 2 PS Year 2 – Double Block	PGY0191K/PGY0191L PGY0191M/PGY0191N	Photographic Specialist
Studio Photographer 4 PS Year 3 – Double Block	PGY0192K/PGY0192L PGY0192M/PGY0192N	Photography Technician

Early Childhood Education:

- ECE 1: This course includes the following content: childcare rules and regulations, safe learning environments, stages of child development, developmentally appropriate practices, and communication skills, principles of child nutrition and technology use; as well as competencies from the DCF 40-hour Introductory Childcare Training coursework.
- ECE 2: This course covers competencies on professionalism, community resources, the importance of relationship skills and communicating with children’s families, history of school-age childcare, infant-toddler developmentally appropriate guidance activities, and observing and recording methods; as well as competencies from the DCF 40-hour Introductory Childcare Training coursework. Students will continue working directly with children 5 years of age or younger to complete the ECPC/CDA work experience requirement.
- ECE 3: This course includes competencies in developing lesson plans, child development theories, factors that affect the development of a child, and developmentally appropriate practices and activities for infants/toddlers, preschoolers, and school-age children. Also covered are components on working with students with special needs, language use & acquisition, emergent literacy, creative expression, classroom management techniques, observation data, and creating optimum environments for all children; as well as competencies from the DCF 40-hour Introductory Childcare Training coursework. Students will continue working directly with children to complete the ECPC/CDA work experience requirement.
- ECE 4: In this course students will acquire competence in the areas of creating a successful developmentally appropriate curriculum, mentoring, recognizing cultural differences (are we missing a word or should we delete “developing”) when planning activities, community resources, classroom management, pediatric first aid, including children with special needs, recent trends and issues in early childhood education, and professionalism; as well as competencies from the DCF 40-hour Introductory Childcare Training coursework. Students will have completed the ECPC/CDA 480-hour work experience requirement by the end of this course.
- Contact: Kristen.Wright@ocps.net and jennifer.houston@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
Early Childhood Education 1	8405110	Application Required Offered to 9 th -11 th graders.
Early Childhood Education 2	8405120	Early Childhood Education 1
Early Childhood Education 3 Honors	8405130	Early Childhood Education 2

Early Childhood Education 4 Honors	8405140	Early Childhood Education 3 Honors
---------------------------------------	---------	---------------------------------------

Digital Video Production:

- The purpose of this program is to prepare students for initial employment as production assistants, audio/video equipment technician, video/TV camera operators, video editors, multimedia artists/animators and broadcast technicians. This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Arts, A/V Technology and Communication 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 Arts, A/V Technology and Communication career cluster. The content includes, but is not be limited to, communication skills, leadership skills, human relations and employability skills, safe and efficient work practices, and preparation to assume responsibility for the overall production of digital video activities (e.g., scripts, lighting, camera operation, electronic news gathering, field/studio production, video editing).
- Contact: Corey.steib@ocps.net
- Program Progression:

Course Name	Course Number	Pre-Requisites
Digital Video Techniques 1	8201410	
Digital Video Techniques 2	8201420	Digital Video Techniques 1
Digital Video Techniques 3 Honors	8201430	Digital Video Techniques 2
Digital Video Techniques 4 Honors	8201440	Digital Video Techniques 3 Hon

Drawing I (0104340):

- Students experiment with the media and techniques used to create a variety of two-dimensional (2-D) artworks through the development of skills in drawing. 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. 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.
- Contact: Stephanie.Kern@ocps.net or Lee.Sloan@ocps.net

- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4696>

Drawing II (0104350):

- Students develop and refine technical skills and create 2-D compositions with a variety of media in drawing. Student artists sketch, manipulate, and refine the structural elements of art to improve mark-making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials.
- Contact: Zorashka.CesteroHassele@ocps.net
- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4704>
- Pre-Requisite Course – Drawing 1

Paint I (0104370):

- 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. 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.
- Contact: Stephanie.Kern@ocps.net
- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4725>
- Pre-Requisite Course – Drawing 1

Paint II (0104380):

- Students develop and refine technical skills and create 2-D compositions in painting. Student artists manipulate, and refine the structural elements of art to improve mark-making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials.
- Contact: Stephanie.Kern@ocps.net
- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4733>
- Pre-Requisite Course – Painting I

Ceramics I (0102300):

- Students explore how space, mass, balance, and form combine to create aesthetic forms or utilitarian products and structures. Instructional focus will be on ceramics and/or pottery. Media may include, but are not limited to, clay and/or plaster, with consideration of the workability, durability, cost, and toxicity of the media used. Student artists consider the relationship of scale (i.e., hand-held, human, monumental) through the use of positive and negative space or voids, volume, visual weight, and gravity to create low/high relief or freestanding structures for personal intentions or public places. They explore sharp and diminishing detail, size, position, overlapping, visual pattern, texture, implied line, space, and plasticity, reflecting craftsmanship and quality in the surface and structural qualities of the completed art forms. Students in the ceramics and/or pottery art studio focus on use of safety procedures for process, media, and techniques. Student artists 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.
- Contact: Amanda.saludez@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4798>
- Pre-Requisite Course – Drawing I

Ceramics II (0102310):

- Students explore spatial relationships through the use of nonobjective, abstract, or representational forms, products, or structures. Instructional focus should be on ceramics and/or pottery. Processes and techniques for substitution may include, but are not limited to, wheel-thrown clay, glaze formulation and application. Media may include, but are not limited to, clay and/or plaster with consideration of the workability, durability, cost, and toxicity of the media used. Ceramic and/or pottery artists experiment with and manipulate space-producing devices, including overlapping, transparency, interpenetration, vertical and horizontal axis, inclined planes, disproportionate scale, fractional or abstracted representation, and spatial properties of the structural art elements. Craftsmanship and quality are reflected in the surface and structural qualities of the completed art forms. Students in the ceramics and/or pottery art studio focus on use of safety procedures for process, media, and techniques. Student artists 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.
- Contact: Amanda.saludez@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4796>
- Pre-Requisite Course – Ceramics I

Art/3-D Studio Art I (sculpture-0101330):

- Students explore how space, mass, balance, and form combine to create aesthetic forms or utilitarian products and structures. Instruction may include, but is not limited to, content in green or industrial design, sculpture, ceramics, or building arts. Media may include, but are not limited to, clay, wood, plaster, and paper maché with consideration of the workability, durability, cost, and toxicity of the media used. Student artists consider the relationship of scale (i.e., hand-held, human, monumental) through the use of positive and negative space or voids, volume, visual weight, and gravity to create low/high relief or freestanding structures for personal intentions or public places. They explore sharp and diminishing detail, size, position, overlapping, visual pattern, texture, implied line, space, and plasticity, reflecting craftsmanship and quality in the surface and structural qualities of the completed art forms. Students in the 3-D art studio focus on use of safety procedures for process, media, and techniques. Student artists 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.
- Contact: amanda.saludez@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4708>
- Pre-Requisite Course – Drawing 1

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. In keeping with the rigor expected in an accelerated setting, students' portfolios show personal vision and artistic growth over time, mastery of visual art skills and techniques, and evidence of sophisticated analytical and problem-solving skills based on their structural, historical, and cultural knowledge. Students are self-directed and display readiness for high levels of critical thinking, research, conceptual thinking, and creative risk-taking. This course incorporates hands-on activities and consumption of art materials.
- Contact: Zorashka.CesteroHasele@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4774>
- Pre-Requisite Course – Must have previously taken TWO of any of the following courses (Draw 1, Draw 2, Paint 1, Paint 2, Portfolio Honors); This course may be taken with AP Art Course as a double block; Application Required- email teacher; Teacher Approval Required

Portfolio Development 2D Design Honors (0109320):

- 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, mixed media, traditional photography, digital photography, and/or new media and emerging technologies that demonstrate understanding of design principles as applied to a 2-dimensional surface. Students regularly reflect on aesthetics and art issues individually and as a group, and manipulate the structural elements of art and organizational principles of design to create 2-dimensional works of art that are progressively more innovative and representative of the student's artistic and cognitive growth. In keeping with the rigor expected in an accelerated setting, students' portfolios show personal vision and artistic growth over time, mastery of visual art skills and techniques, and evidence of sophisticated analytical and problem-solving skills based on their structural, historical, and cultural knowledge. Students are self-directed and display readiness for high levels of critical thinking, research, conceptual thinking, and creative risk-taking. This course incorporates hands-on activities and consumption of art materials.
- Contact: Zorashka.CesteroHassele@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4775>
- Pre-Requisite Course – Must have previously taken TWO of any of the following courses (Draw 1, Draw 2, Paint 1, Paint 2, Portfolio Honors); This course may be taken with AP Art Course as a double block; Application Required- email teacher; Teacher Approval Required

AP Drawing (0104300)

- The AP Art and Design program consists of an AP Portfolio Exam corresponding to college and university foundations courses. Students develop skills in drawing while experimenting with different materials and processes. Students create artwork that reflects their own ideas and skills. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year which include art making, documenting, and written information about the work presented. At the end of year students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. For the AP Drawing portfolio work should focus on the application of drawing skills, including mark-making, line, surface, space, light and shade, and composition by thinking about marks that can be used to make drawings, the arrangement of marks, the materials and processes used to make marks, and relationships of marks and ideas. Materials may include but are not limited to drawing (analog and digital), painting, printmaking, and mixed media work.
- Contact: Zorashka.CesteroHassele@ocps.net
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

- Pre-Requisite Course – 2 of any of the following (Draw 1, Draw 2, Paint 1, Paint 2, Portfolio Honors); Recommended to be taken with Portfolio Honors (as double block for AP); Application Required; Teacher Approval Required

AP 2D Art & Design (0109350)

- The AP Art and Design program consists of an AP Portfolio Exam corresponding to college and university foundations courses. Students refine and apply 2-D skills to ideas they develop throughout the course while experimenting with different materials and processes. Students create artwork that reflects their own ideas and skills. Students work on creating a portfolio that is submitted at the end of the year for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. The work will consist of art making, documenting, and written commentary presented in the portfolio. This portfolio is designated for work that focuses on the application of two-dimensional (2-D) elements and principles of art and design, including point, line, shape, plane, layer, form, space, texture, color, value, opacity, transparency, time; unity, variety, rhythm, movement, proportion, scale, balance, emphasis, contrast, repetition, figure/ground relationship, connection, juxtaposition, hierarchy. Students can work with any materials, processes, and ideas as long as the work is the student's original creation. Graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting, and printmaking are among the possibilities for submission. Composite images may be submitted.
- Contact: Zorashka.CesteroHassele@ocps.net
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>
- Pre-Requisite Course – 2 of any of the following (Draw 1, Draw 2, Paint 1, Paint 2, Portfolio Honors); Recommended to be taken with Portfolio Honors (as double block for AP); Application Required; Teacher Approval Required

AP 3D Art & Design (0109360):

- The AP Art and Design program consists of three different courses and AP Portfolio Exams— AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.
- Contact: amanda.saludez@ocps.net
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

- Pre-Requisite Course - 2 of any of the following (3D Art, Ceramics I, Ceramics II); Application Required; Teacher Approval Required

Drawing Program Progression:

Course Name	Course Number	Pre- Requisites
Drawing I	0104340	
Drawing II	0104350	Drawing I
Portfolio Development Honors (2D or Drawing)	0109320 (Honors 2D) 0109310 (Honors Drawing)	Any 2 of the following: Drawing I, Drawing II, Painting I, Painting II, Port Dev Hon 2D, Port Dev Hon Draw
AP Art & Design (2D or Drawing) Portfolio Development Honors (Double Block)	0109350 (AP 2D) 0104300 (AP Drawing) 0109320 (Honors 2D) 0109310 (Honors Drawing)	Any 2 of the following: Drawing I, Drawing II, Painting I, Painting II, Port Dev Hon 2D, Port Dev Hon Draw

Painting Class Progression

Course Name	Course Number	Pre- Requisites
Painting I	0104370	Drawing I
Painting II	0104380	Painting I
Portfolio Development Honors (2D or Drawing)	0109320 (Honors 2D) 0109310 (Honors Drawing)	Any 2 of the following: Drawing I, Drawing II, Painting I, Painting II, Port Dev Hon 2D, Port Dev Hon Draw

AP Art & Design (2D or Drawing)	0109350 (AP 2D)	Any 2 of the following: Drawing I, Drawing II, Painting I, Painting II, Port Dev Hon 2D, Port Dev Hon Draw
Portfolio Development Honors (Double Block)	0104300 (AP Drawing)	
	0109320 (Honors 2D)	
	0109310 (Honors Drawing)	

3D Art/Ceramics Progression

Course Name	Course Number	Pre- Requisites
Art 3D - Ceramics I	Sculpture-0101330 0102300 (ceramics)	Drawing I
Ceramics II	0102310	Ceramics I
AP Art & Design (3D)	0109360	Art 3D, Ceramics I, or Ceramics II

AP Art History (0100300):

- The AP Art History course welcomes students into the global art world to engage with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the students develop in-depth, holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, developing understanding of individual works and interconnections across history.
- Contact: michael.dutcher@ocps.net
- Detailed course description is located: <https://apcentral.collegeboard.org/courses>

Latinos In Action:

- The end goal of everything we do in Latinos in Action is to empower Latino youth to lead and strengthen their communities through college and career readiness. We accomplish this by focusing on four pillars: developing professionally, personally, and multiculturally, excelling in education, serving the community, and developing leadership skills.
- Contact: Katherine.Gonzalez@ocps.net

- Application Required
- Program Progression:

Course Name	Course Number	Pre-Requisites
Latinos In Action	2400300A	Application Required
Latinos in Action (Second Year)	2400310A	Latinos in Action Year 1 – Application Required
Latinos in Action (3rd year)	2400320A	Latinos in Action Year 2 – Application Required

Student Government Association (SGA):

- In 9th grade, students focus on leadership skills. For example, one class may be in charge of promoting positivity on campus. Students will also help run sporting events. As students get to older grades, they can plan homecoming, prom, spirit week and other events on campus. The purpose of this course is to teach leadership skills, parliamentary procedure, problem solving, decision making, communication skills, group dynamics, time and stress management, public speaking, human relations, public relations, team building, and other group processes.
- Contact: dawn.feeney@ocps.net
- Application posted on the TCHS website
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Leadership Skills Dev (SGA 1)	2400330A	9th Grade Only – Application Required
Leadership Techniques Honors (SGA 2)	2400310	SGA 1
Leadership Strategies Honors (SGA 3)	2400320	SGA 2
Approaches to Leadership Honors (SGA 4)	2400330	SGA 3

Executive Intern 1 (0500300):

- The purpose of this course is to provide a practical introduction to the work environment through direct contact with professionals in the community
- Contact: Melanie.Mahaffey@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
-------------	---------------	----------------

Executive Intern 1 (Student Assistant)	0500300	Must Apply (3.5 cumulative weighted GPA) 11th & 12th and earned/in acceleration point course
Executive Intern 2 (Student Assistant)	0500310	Must Apply (3.5 cumulative weighted GPA) 11th & 12th and earned/in acceleration point course. Completed Executive Intern 1

Peers as Partners in Learning (PIT Crew – 1400340):

- This course is designed to provide reciprocal academic and social benefits to students with disabilities and their peers without disabilities. Students enrolled in this course will learn and apply knowledge and skilled practices in the areas of academic engagement, communication, social barriers, leadership, problem solving, and other disability-related topics such as historical perspectives, inclusion, Universal Design for Learning, person-first language, presumed competence, social justice for minority populations, and media representation of diverse people. The content and concepts should include but not limited to the following:
 - Know and understand the legal and human rights of people with disabilities and their families.
 - Understand and apply the concepts of confidentiality and self-determination.
 - Understand historical events and aspects of disability and their influence on current attitudes, beliefs, and practices.
 - Build awareness and understanding, through research and communication, of disability rights issues in the local community and beyond.
 - Apply methods for problem-solving and advocacy (including self-advocacy for students with disabilities).
 - Apply knowledge and strategies to promote learning for people with disabilities, in inclusive settings, through academic, communication, physical and social supports.
 - Facilitate meaningful peer relationships in and out of school.
 - Understand and facilitate team and cooperative learning skills among all students.
 - Contribute to the concept of civic responsibility by researching and communicating information about social justice in a democratic society.
 - Design and implement one or more projects to demonstrate knowledge, understanding, and application of course content and concepts.
 - Assess and evaluate the impact of course efforts on self and others.
- Contact: Christy.Dove@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/14383>

- Program Requirements – Application Required. Must have a cumulative unweighted GPA of a 2.5 or higher, good attendance/behavior. For students in 9th – 12th grade. For students in 9th grade – Must have complete Algebra 1 or Geometry with a good grade. Community service hours will not be given through in the class but many outside school opportunities will be provided to earn community service hours.

Band:

- All students enrolled in a band class are included in the “Regiment”- the marching band & color guard. Members have the opportunity to travel and perform alongside a cohesive group of students spanning all grades levels 9-12th.
- Audition required for higher level placement.
- Contact: rhett.cox@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Freshman Band (Band 1)	1302300	
Symphonic Band (Band 4-Reg & 5-Hon)	1302330 & 40	audition required
Wind Ensemble Honors (music Ensemble 4)1305430	1305430	audition required
Percussion Ensemble Hon (Instrumental Tech Hon)	1302440	audition required

Jazz Ensemble:

- Audition required for higher level placement. This course is taken in additional to another Band course listed above.
- Contact: carey.hoey@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Jazz Ensemble 1 (JV Jazz)	1302500	take band concurrently no audition
Jazz Ensemble 2 (JV Jazz)	1302510	take band concurrently, audition required
Jazz Ensemble 3 ("Varsity Jazz")	1302520	take band concurrently, audition required

Jazz Ensemble 4 Honors ("Varsity Jazz")	1302530	take band concurrently, audition required
---	---------	---

Color Guard:

- All 4 levels/years of Color Guard require Regiment participation.
- Contact: rhett.cox@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Color Guard 9th (Euryth 1)	1305300	
Color Guard 10th (Euryth 2)	1305310	audition required
Color Guard 11th (Euryth 3)	1305320	audition required
Color Guard 12th (Euryth 4)	1305330	audition required

Chorus:

- In Chorus, students learn the fundamentals of solo and ensemble singing, including proper vocal technique, music literacy, performance technique, and teamwork skills. Students learn a variety of music and have the opportunity to perform around the school and community, as well as travel in and out of state. Our choirs maintain a high level of excellence and regularly participate in adjudicated events throughout the year. All are welcome!
- Audition required for higher level placement.
- Contact: Paul.Roy@ocps.net or Sarah.Leaman@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Chorus 1 (REG)	1303300	9th
Chorus 2 (REG)	1303310	10th
Chorus 3 (REG)	1303320	11th
Chorus 4 (REG)	1303330	12th
Chorus 5 (HON)	1303340	Advanced Ensemble for 11th
Chorus 6 (HON)	1303350	Advanced Ensemble for 12th
Vocal Techniques (REG)	1303400	Audition required/teacher approval required - Must take with additional chorus course

Orchestra:

- Orchestra meets regularly during and after school.
- Audition required for higher level placement.
- Contact: diana.tang@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Orchestra 3	1302380	9th
Orchestra 4	1302390	10th
Orchestra Honors 5	1302400	11th
Orchestra Honors 6	1302410	12th

Dance:

- Class fee is assessed for each dance course, which covers costumes, supplies & production costs.
- All students interested in dance should sign up for either Dance Techniques 1 or Ballet 1. If student has dance experience, he/ she should audition for a higher level placement.
- Contact: Tara.Perry@ocps.net and please visit www.tchsdance.com
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Dance Techniques 1	0300310	
Dance Techniques 2	0300320	Dance Techniques 1 or audition
Dance Techniques 3 Honors	0300330	Dance Techniques 2 or audition
Dance Techniques 4 Honors	0300334	Dance Techniques 3 or audition
Dance Repertory 1	0300400	Audition required
Dance Repertory 2	0300410	Audition required
Dance Repertory 3 Honors	0300420	Audition required
Dance Repertory 4 Honors	0300430	Audition required
Dance Choreography/Performance1	0300380	Teacher Placement Only
Dance Choreography/Performance2	0300390	Teacher Placement Only
Ballet 1	0300340	
Ballet 2	0300350	Ballet 1
Ballet 3	0300360	Ballet 2
Ballet 4	0300370	Ballet 3

Theatre & Acting:

- Class fee is assessed for each theater course, which covers supplies & production costs
- Audition required for higher level placement.
- Contact: Justin.Horn@ocps.net or Ryan.Skiles@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Theatre 1	0400310	
Theatre 2	0400320	
Theatre 3 Honors	0400330	
Theatre 4 Honors	0400340	
Acting 1	0400370	Audition Required & freshman only
Acting 2	0400380	Audition Required
Acting 3	0400390	Audition Required
Acting 4 Honors	0400400	Audition Required

Technical Theatre & Production:

- Class fee is assessed for each theater course, which covers supplies & production costs.
- Audition required for higher level placement.
- Contact: Justin.Horn@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Technical Theatre & Production 1	0400410	Application Required
Technical Theatre & Production 2	0400420	TTDP1
Technical Theatre & Production 3	0400430	TTDP2
Technical Theatre & Production 4	0400440	TTDP3
Tech Theatre/Design and Production Scenery & Props	0400407	TTDP4

Musical Theatre:

- Class fee is assessed for each theater course, which covers supplies & production costs.
- Audition required for higher level placement.
- Contact: Ryan.Skiles@ocps.net
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>

- Program Progression:

Course Name	Course Number	Pre-Requisites
Musical Theater 1	0400700	
Musical Theater 2	0400710	Audition Required
Musical Theater 3	0400720	Audition Required

Air Force Junior Reserve Officer Training (AFJROTC):

- Develop and sharpen your leadership skills, as you advance in rank, and position yourself for post-high school employment and higher education.
- Learn life skills that will help you succeed along any path.
- Grow self-confidence as you learn self-discipline and responsibility.
- Explore the thrill of flight and aviation by enrolling in our Embry Riddle Aeronautical University dual enrollment courses.
 - Learn about the science of flight by enrolling in the Principles of Aerospace Science and Unmanned Air Operations (requires instructor approval)
 - Take the first step toward earning your Private Pilot License and complete the Private Pilot Ground School & FAA Written Exam (requires instructor approval)
 - Be positioned to earn scholarships and opportunities for flight training
- Be part of the award-winning Timber Creek Drill Team and Color Guard
- Contact: JROTC-R1-FL-20041@au.af.edu
- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Aerospace Science 1	1800300	All new students taking ROTC for 1 st time
Aerospace Science 3	1800320	Aerospace Science course
Advanced Aero Science(Drill Team/Honor Guard)	1800340	Teacher approval required. Must take concurrent with JROTC course
Principles of Aero Science/Unmanned Air (Drone)	ASC1000/ASC2560	Teacher approval required
Private Pilot Ops (Ground School)	ATF1103	Teacher approval required

HOPE – Physical Education (3026010):

- The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. Students will realize the full benefit of this course when it is taught with an integrated approach. In addition to the physical education content represented in the benchmarks below, specific health education topics

within this course include, but are not limited to: Mental/Social Health, Physical Activity, Components of Physical Fitness, Nutrition and Wellness Planning, Diseases and Disorders, Health, Advocacy, First Aid/CPR, Alcohol, Tobacco, and Drug Prevention, Human Sexuality including Abstinence and HIV, and Internet Safety.

- This class is a high school graduation requirement. The course can be taken @ Timber Creek High School or through FLVS/OCVS.
- Waiver: Students can earn a waiver for the HOPE requirement by completing the following:
 - Complete 2 years/credits of AFJROTC
 - Complete 2 seasons of a qualifying JV/V sport.
 Once you are completed, please reach out to your school counselor to obtain the waiver form.
- Detailed course description is located: <https://www.cpalms.org/Public/PreviewCourse/Preview/4051>

Physical Education:

- Detailed course description is located: <https://www.cpalms.org/Public/search/Course>
- Program Progression:

Course Name	Course Number	Pre-Requisites
Team Sports 1/2	1503350/60	HOPE
Individual/Dual Sports 1/2	1502410/20	HOPE
Beginning/Intermediate Weight Training	1501340/50	HOPE

First Aid & Safety/Care & Prevention (1502490/0800320):

- Course Description for First Aid & Safety (Semester I): This course provides a basic overview of the causes and preventions of unintentional injuries, appropriate emergency responses to those injuries and crisis response planning. Safety education should include cardiopulmonary resuscitation (CPR) and the use of an automatic external defibrillator (AED), first aid for obstructed airway, and injury prevention.
- Course Description for Care & Prevention (Semester II): This course provides a basic overview of knowledge and skills relating to the nature, prevention, care, and rehabilitation of athletic injuries.
- ClassFee: The class fee will be used to purchase first aid supplies, tape as well as other supplies used during labs. The cost will be \$30.00 per student. We will use schoolpay for payment. An announcement will be made about this with the link provided.
- There is an additional cost for students that would like to take the American Red Cross certification exam.

- Contact: samuel.mizener@ocps.net
- Detailed course description is located:
<https://www.cpalms.org/Public/PreviewCourse/Preview/4023> &
<https://www.cpalms.org/Public/PreviewCourse/Preview/4688>
- Pre-Requisite Course - HOPE

Learning Strategies (7963080):

- The purpose of this course is to enable students with disabilities to acquire and generalize strategies and skills across academic, community, and employment settings to achieve annual goals based on assessed needs and the student's individual educational plan (IEP).
- Students are placed into this course per their individual education plan (IEP).

Transition Planning (7960010):

- The purpose of this course is to enable students with disabilities to develop knowledge and skills for transition planning and accessing services needed to engage in postsecondary education/training, employment, and independent living.
- Students are placed into this course per their individual education plan (IEP).

Senior Privilege (previously known as FLEX):

- This is non-credit bearing course and does not add any academic rigor to your schedule. Please note that colleges/universities want to see that students maintain a rigorous course load their senior year. It is recommended that students have a full schedule in order to be competitive for college.
- Requirement:
 - 1 Period of Senior Privilege: 3.0 cumulative weighted GPA, on track for graduation, and must have earned or be enrolled in an acceleration point course.
 - 2 Periods of Senior Privilege: 3.5 cumulative weighted GPA, on track for graduation, and must have earned or be enrolled in an acceleration point course.