

Magnet High School Programs 2022-2023

APOPKA HIGH SCHOOL

555 W. Martin Street
Apopka, FL 32712
407.905.5500
apopkajs.ocps.net

Medical Careers - VIDEO ONLINE

GPA: minimum 2.5 recommended
Entrance: Freshman year, limited sophomore year

Examining the structures and interactions of the human body systems, this magnet explores the prevention, diagnosis, and treatment of disease. Senior year semester offers career shadowing and clinical experiences in healthcare fields that include dentistry, vision care, veterinary medicine, emergency medicine, radiology, physical therapy, occupational therapy, pharmacy, nursing, pediatrics, labor and delivery, cardiology, and surgery. Students participate in many dissections.

- YR1: Principles of Biomedical Science
- YR2: Human Body Systems
- YR3: Medical Interventions
- YR4: Biomedical Innovations

Advanced Engineering Applications - VIDEO Online

Contact: Michael MacWithey, Magnet Director, michael.macwithey@ocps.net
GPA: minimum 3.0 recommended
Entrance: Freshman year, limited sophomore year

Strongly grounded in mathematics and physical sciences, this magnet will emphasize the humanities and social sciences to help develop judgment and curiosity. In addition, students will have an opportunity to enroll in Embry Riddle Aeronautical University Dual Enrollment courses in their final years. AEA students follow a college-preparatory curriculum beginning in Grade 9. Magnet students are encouraged to enroll in as many Advanced Placement (AP) courses as possible during their high school career.

- YR1: Intro into Engineering and Design
- YR2: Principles of Engineering
- YR3: Digital Electronics
- YR4: Engineering Design and Development
- Electives in Applied Robotics Curriculum (Foundations of Robotics and Competitions), AP Chemistry, AP Physics and AP Calculus.

BOONE HIGH SCHOOL

1000 E. Kaley Street
Orlando, FL 32806
407.893.7200
Boonehs.ocps.net

Criminal Justice, Law, and Finance

GPA: minimum 3.0 recommended
Entrance: Freshman year, limited sophomore year

This magnet is divided into three tracks.

CRIMINAL JUSTICE

Contact: Jennifer Williamson, Criminal Justice Instructor, jennifer.williamson@ocps.net

Completion of all four classes can result in 16 college credits. Community Service is an integral part of this curriculum. Membership is required in the OPD Boone Cadet program. There is a strict dress code including appearance.

- YR1: Criminal Justice I
- YR2: Criminal Justice II
- YR3: Criminal Justice III
- YR4: Dual Enrollment : Intro into Criminology, Intro into Corrections
- Additional elective: Orlando Police Explorer Program

LAW

Students study the rules, processes, and ethical requirements for effective courtroom practice through many different areas of law, including constitutional law, criminal law, contracts, juvenile justice, torts, employment law, and landlord/tenant law. There is a strict dress code including appearance.

- YR1: Debate 3, AP Human Geography
- YR2: Comprehensive Law, World History Honors or AP
- YR3: Court Room Procedures, English 3 Honors or AP, US History Honors or AP
- YR4: AP Government, AP Comparative Government Economics Honors or AP, English 4 Honors or AP
- Additional Electives: Mock Trial Team, Moot Court Team, Speech and Debate Team, Orange Court Teen Court, Law and Government Explorer's Post

FINANCE

Contact: Mr. Daniel, Academy of Finance Instructor, william.daniel@ocps.net

Offering a career-focused curriculum, this magnet track specializes in accounting, economics, financial management, insurance, taxation, and personal financial planning. There is a strict dress code including appearance

- YR1: Digital Information Technology, Accounting Application 1, AP Human Geography
- YR2: Finance and Business Technology, World History Honors or AP
- YR3: Personal Financial Planning, English 3 Honors or AP, US History Honors or AP
- YR4: Government Honors or AP, AP Micro and Macroeconomics, English 4 Honors or AP

COLONIAL HIGH SCHOOL

6100 Oleander Drive

Orlando, FL 32807

Colonialhs.ocps.net

Cambridge (AICE)

GPA: 3.0 recommended

Entrance: N/A

Gaining an in-depth understanding of subjects while developing the tools to succeed in college-level classes, AICE is known for being flexible and allowing students to dive into a study of concepts they find interesting. There is an option to take individual classes from the AICE program or earn the Cambridge Diploma.

- YR1: Pre-AICE courses
- YR2: Pre-AICE courses
- YR3: AICE courses and examinations
- YR4: AICE courses and examinations

NAF Info Tech

Contact: Lorraine Grice lorraine.grice@ocps.net

GPA: 2.5 recommended

Entrance: Freshman year, limited sophomore year

Designed to study, develop, implement, support and manage computer-based information systems. Students are academically prepared for two and four year colleges..

- YR1: Introduction to Information Technology.
- YR2: Students select a track: IT Support - Cyber Security (PC Support and Network Design, CompTIA A+, Network+, and Security+ Certifications) or IT Communications (Digital Video Production and Digital Print Media).
- YR3: Continue with track above
- YR4: Internship
- Classes include: Applied Cyber Security, Applied Information Technology, Digital Design, Web Development, Digital Video Production, TV Production

Veterinarian

GPA: minimum 2.5 recommended

Entrance: Freshman year, limited sophomore year

Focusing on animal species characteristics, nutrition, parasitology, epidemiology reproduction, students learn principles of community and governmental regulations, safety and environmental issues. Students may earn their certification in veterinary assisting by completing a training program, passing a certification exam and completing 250 hours of veterinary practice procedures. ABS (American Breeders Service) certification can also be completed through a large animal reproductive physiology course from the University of Florida. Interns work with domestic and exotic wildlife through wildlife rescues and zoos.. There is an opportunity to raise animals at home or on the school facilities.

- YR1: Animal Science 1
- YR2: Animal Science 2
- YR3: Animal Science 3
- YR4: Animal Science 4

DR. PHILLIPS HIGH SCHOOL

6500 Turkey Lake Road

Orlando, FL 32819

407.355.3200

Drphillipshs.ocps.net

Center for International Studies

Contact: Magnet Coordinator, nilam.patel@ocps.net

GPA: minimum 3.0 recommended

Entrance: Freshman year, limited sophomore year

Emphasizing concepts in international affairs, politics, history, world religions, and humanities, students in this magnet have the opportunity to become fluent in a foreign language. The CIS magnet offers a strong Advanced Placement emphasis, enhancing student opportunities for scholarships and college entrance. 100% of last year's class attended college.

- YR1: English Honors, AP Human Geography, World Language
- YR2: English Honors, AP World History, World Language

- YR3: AP English Language, AP US History, World Language, Capstone Project (year 1)
- YR4: AP English Literature, Anthropology (DE), AP Art History, World Language, Capstone Project (year 2)

Visual and Performing Arts

Contact: Magnet Program Coordinator, Nicole Nasrallah, nicole.nasrallah@ocps.net

GPA: minimum 3.0 recommended

Entrance: Audition required

This magnet offers programs in Dance, Music, Television Production, Theatre, and Visual Art with a strong emphasis on college preparation.

VISUAL ART - Students required to take two courses per year. There are three tracks in this program: Animation (Digital Media/Multimedia, Graphic Design (DIT and Digital Design) and Photography (Creative Photography.)

- YR1: Drawing and Ceramics
- YR2 Painting and one track course:
- YR3: One AP and one track course (AP Drawing Portfolio, AP 2D Art & Design Portfolio or AP 3D Art & Design Portfolio)
- YR4: Another AP and one track course (AP Drawing Portfolio, AP 2D Art & Design Portfolio or AP 3D Art & Design Portfolio)
- Other available electives: Ceramics/Pottery 3 Hon, AP 3D Art & Design Portfolio, 2D Studio Art, 3D Studio Art, Portfolio Development: Drawing Hon, AP Art History

DANCE- Students required to take two courses per year.

- YR1: Ballet 1 and Dance Rep 1 (By invitation: Choreography & Perf 1)
- YR2: Ballet 2 and Dance Rep 2 (By invitation: Dance Tech 2)
- YR3: Ballet 3 and Dance Rep 3 Honors (By invitation: Dance Tech 3 Honors)
- YR4: Ballet 4 Honors and Dance Rep 4 Honors (By invitation: Dance Tech 4 Honors)

BAND- The BAND strand includes Concert Band, Symphonic Band, Wind Symphony, Marching Band, and Jazz Bands.

- YR1: Band 3 and Keyboard I
- YR2: Band 4 and Music Theory
- YR3: Band 5 Honors and Music Technology and Sound Engineering I
- YR4: Band 6 Honors and AP Music Theory

CHORUS- The CHORUS strand consists of six curricular choirs and five after-school ensembles. The curricular choirs focus on traditional choral singing, sight-reading, ear training, and developing each individual singer's vocal technique. Students are required to be in one choir each year and to take weekly voice lessons.

- YR1: Chorus 1 and Keyboard I
- YR2: Chorus 2 and Music Theory
- YR3: Chorus 3 and Music Technology and Sound Engineering I
- YR4: Chorus 4 and AP Music Theory
- Additional after school options: vocal jazz, contemporary a cappella, gospel, barbershop, and mass choir singing

ORCHESTRA - Students are required to take one music performance class each year and one music academic class each year.

- YR1: Orchestra 3 and Keyboard I
- YR2: Orchestra 4 and Music Theory
- YR3: Orchestra 5 Honors and Music Technology and Sound Engineering I
- YR4: Orchestra 6 Honors and AP Music Theory

THEATRE

- YR1: Acting I and Stagecraft I
- YR2: Acting II and Stagecraft II
- YR3: Acting III and Theatrical Directing I
- YR4: Acting IV Honors and Theatrical Directing II Honors
- Additional Electives: Musical Theatre I,II and III, Playwriting, Scenery & Prop Design and Costume, Light, & Sound Design

TV/FILM PRODUCTION - In a large studio, students learn the various aspects of Broadcast Journalism and Digital Video production. Upper-level students produce a daily news show which is broadcast throughout the school.

- YR1: Digital Video Technology I and Drama I
- YR2: Digital Video Technology II and Journalism I or Digital Design or Communications Tech/Graphic Arts
- YR3: Digital Video Technology III and Digital Video Technology IV
- YR4: Digital Video Technology V

EAST RIVER HIGH SCHOOL

650 E. River Falcons Way
Orlando, FL 32833
407.956.8550
Eastriverhs.ocps.net

First Responders Academy

Contact: Program Coordinator, Danielle Miller, danielle.miller@ocps.net
GPA: 2.5 recommended
Entrance: N/A

Using classroom instruction and hands-on experience, students explore simulations of crime-scene investigation, collections of evidence, mock crash scene investigation and staged traffic searches. This magnet program has two tracks: Criminal Justice- Law Enforcement and Fire Science Technology- Firefighting. Students are required to change into a uniform for PT.

CRIMINAL JUSTICE

- YR1: Criminal Justice Operations I
- YR2: Criminal Justice Operations II
- YR3: Criminal Justice Operations III (Part 1) and Dual Enrollment
- YR4: Criminal Justice Operations III (Part 2) and Dual Enrollment
- Dual Enrollment options: Intro to Criminal Justice, Criminology, Policing Systems and Procedures, Criminal Law and First Aid & CPR

FIREFIGHTING- Students in the Firefighting track work toward their State Certification in Firefighting

- YR1: Firefighting I
- YR2: Firefighting II
- YR3: Firefighting III and Dual Enrollment
- YR4: Firefighting III and Dual Enrollment
- Dual Enrollment options: Fire Science Fundamentals, Medical Terminology, First Aid & CPR and Industrial Firefighting

EDGEWATER HIGH SCHOOL

3100 Edgewater Drive

Orlando, FL 32804

407.835.4900

Edgewaterhs.ocps.net

Engineering, Science, and Technology (EST) - VIDEO ONLINE

Contact: Denise Hinds-Cruz, EST Coordinator, denise.hindscruz@ocps.net

GPA: minimum 3.0 recommended and completion of Algebra 1

Entrance: Freshman year, limited sophomore year

Focusing on future careers in engineering, architecture, technology and design, this magnet is divided into two pathways: Engineering follows the Pathways to Engineering progression developed by Project Lead the Way and Embry-Riddle University's Aerospace Engineering Career Academy, leading to college credit. Technology focuses on 3D Animation, Graphic Design or Gaming and Simulation Programming and the opportunity to earn up to six separate industry certifications.

- Additional electives: AP Chemistry, AP Physics C: Mechanic and E&M, AP Biology, AP Environmental Science, AP Calculus AB or BC, Calculus 3 (DE) and Differential Equations (DE)

ENGINEERING

Robotics Track

- YR1: Foundations of Robotics
- YR2: Robotics Design Essentials
- YR3: Robotic Systems
- YR4: Robotic Applications

General Engineering Track

- YR1: Intro into Engineering Design
- YR2: Principles of Engineering
- YR3: Computer Integrated Manufacturing
- YR4: AP Computer Science Principles

TECHNOLOGY

3D Animation

- YR1: Digital Art Technology 1
- YR2: 3D Animation Production K&L (Orlando Technical College -OTC - on campus)
- YR3: 3D Animation Modeler K,L,M,N (OTC) 2 periods
- YR4: 3D Animation Texture K,L,M,N (OTC) 2 periods

Modeling and Simulation

- YR1: Modeling/Simulations Foundations
- YR2: Modeling/Simulations Design
- YR3: Modeling/Simulations Application
- YR4: IT Directed Study

Computer Science

- YR1: Fundamentals of Programing
- YR2: AP Computer Science PRinciples
- YR3: AP Computer Science A
- YR4: IT Directed Study

Center for Future Educators

Contact: Linda Eneas, CFE Coordinator, linda.eneas@ocps.net

GPA: minimum 2.5 recommended

Entrance: N/A

Working with Orange Technical College and Valencia College, this magnet provides a dual enrollment experience for future educators.

- YR1: Introduction to the Teaching Profession (Dual Enrollment -DE), Additional elective
- YR2: Human Growth & Development, New Student Experience (DE), Art & Wellness in Elementary Schools (DE)
- YR3: Foundations for Curriculum & Instruction (DE), Freshman Composition (DE), Technology for Educators (DE)
- YR4: Principles of Teaching Internship (DE), Diversity for Educators (DE) Children in Schools: Legal, Ethical, and safety Concerns (DE)

EVANS HIGH SCHOOL

4949 Silver Star Road

Orlando, FL 32803

407.522.3400

evanshs.ocps.net

Entertainment Production and Management Academy

Contact: Tavius King, EPM Coordinator

GPA: minimum 2.5 recommended

Entrance: N/A

Developing proficiency in the back-of-house areas of theatre production, students have the opportunity to earn free college credits in a two-year course of study offered through Valencia College. The curriculum includes an opportunity to earn technical certification in one of three tracks: Digital Media Television Production, Entertainment Design and Technology, or Sound and Music Technology.

ENTERTAINMENT STAGE TECHNOLOGY - Focusing on stagecraft, lighting, audio, and production for theater, concerts, theme parks, and industrial theater, this track is designed to provide students with the foundation and skills required to begin working Central Florida's live entertainment industry.

- YR1: Theater 1, Digital Information Technology
- YR2: Theatre, Cinema Film Production, 2D Art
- YR3: Introduction to Audiovisual Technology, Survey of Entertainment, Technical Theater 1
- YR4: Introduction to Stage Lighting, Introduction to Audio Production, Technical Theater 2

DIGITAL MEDIA/TV PRODUCTION - Designed to provide skills to create digital video presentations for DVDs, Internet, or live audiences. This track focuses on screenwriting, digital video production, editing, post-production, and image manipulation.

- YR1: Digital Information Technology or Digital Design I
- YR2: Theater, Cinema Film Production, Digital Videography 1, Survey of Entertainment, Introduction to Audio Production
- YR3: Introduction to Audiovisual Technology, Audiovisual Production, Digital Videography 2
- YR4: Digital Videography 3, Journalism

SOUND AND MUSIC PRODUCTION- Providing students with theoretical and classroom experience, this track prepares students for careers in the field or professional audiovisual production. Providing a technical understanding of acoustics, audio devices and optics and projectors, it creates hands-on experiences in the design, setup, operation of technical systems in the areas of live sound and audiovisual presentations.

- YR1: Theater 1, Digital Information Technology

- YR2: Theater, Cinema Film Production, Digital Videography 1
- YR3: Survey of Entertainment, Introduction to Audiovisual Technology, Digital Videography 2
- YR4: Introduction to Audio Production, Live Sound Techniques, Digital Videography 3

JONES HIGH SCHOOL

801 S. Rio Grande Avenue
Orlando, FL 32805
407.835.2300
joneshs.ocps.net

Medical Magnet and Career Technical Education

Contact: Mrs. Cadette, Marnie.Cadette@ocps.net

GPA: minimum 3.0 recommended

Entrance: Freshman year, limited sophomore year

Through a partnership with Orange Technical College, students take advanced course work with hands-on experiences and have the opportunity to complete the Practical Nursing program and take the National Licensed Practical Nurse (LPN) examination.

- YR1: Medical Skills Services
- YR2: Practical Nursing Foundations 1, Summer – Practical Nursing Foundations 1
- YR3: Practical Nurse Foundations 2, Medical Surgical Nurse, Summer – Medical Surgical Nurse 1
- YR4: Medical Surgical Nurse 2, Comprehensive Nursing Skills

OAK RIDGE HIGH SCHOOL

700 W. Oak Ridge Road
Orlando, FL 32809
407.852.3200
Oakridgehs.ocps.net

Programs:

3DE by Junior Achievement

Contact: Ms. Braden, Guidance Counselor, camisha.kingbraden@ocps.net

GPA: minimum 2.5 recommended

Entrance: anytime

Coursework is complemented by career readiness experiences including career-site visits, interacting with business coaches, and consultancy experiences

- YR1: DIT
- YR2: Business/Entrepreneurship Principles
- YR3: Business Analysis
- YR4: Options such as Legal, Environmental and Business

Aviation and Aerospace Engineering

Contact: Ms. Braden, Guidance Counselor, camisha.kingbraden@ocps.net

GPA: 2.5 recommended

Entrance: Freshman year, limited sophomore year

Using state of the art flight simulators on campus, students earn multiple industry certifications and participate in career-site field trips, job-shadowing, mentor programs and internships. Students are academically prepared for two and four year higher education programs.

- YR1: Aerospace 1
- YR2: Aerospace 2
- YR3: Aerospace 3
- YR4: Intro into Engineering

Hospitality Management

Contact: Ms. Braden, Guidance Counselor, camisha.kingbraden@ocps.net

GPA: 2.5 recommended

Entrance: Freshman year, limited sophomore year

Meeting the needs of both four-year college-bound and community college students, this magnet offers a manager mentor program, site visits, job shadowing and interaction with industry leaders as guest speakers.

- YR1: Intro into Hospitality
- YR2: Hospitality/Tourism/Marketing
- YR3: Internship
- YR4: Externship

Digital Media and Gaming

Contact: Ms. Braden, Guidance Counselor, camisha.kingbraden@ocps.net

GPA: 2.5 recommended

Entrance: Freshman year, limited sophomore year

In cooperation with the University of Central Florida School of Film and Digital Media, students learn the latest in podcasting, animation, web design, electronics and gaming development. Students are prepared for two and four year higher education programs.

- YR1: Simulation and Design 1
- YR2: Simulation and Design 2
- YR3: Simulation Graphic Artist
- YR4: Elective changing for next year: TBD

UNIVERSITY HIGH SCHOOL

2450 Cougar Way

Orlando, FL 32817

407.482.8700

Universityhs.ocps.net

Performing Fine Arts

Contact: Wanda Alvarado, Magnet Coordinator, 55987@ocps.net

GPA: 3.0 recommended

Entrance: Audition required

Emphasizing classes at the Honors and AP level, students will participate in a rigorous academic curriculum. This program is divided into four tracks. Students complete the Health Opportunities through Physical Education (HOPE) course online the summer before freshman year.

DANCE- Providing techniques in ballet, jazz, modern and choreography, students work on various dance techniques, creation, professional development and performing experience..

- YR1: Ballet 1, Dance Techniques 1, Magnet Elective
- YR2: Ballet 2, Dance Techniques 2, Magnet Elective
- YR3: Ballet 3, Dance Techniques 3, Magnet Elective
- YR4: Ballet 4, Dance Techniques 4, Magnet Elective

INSTRUMENTAL- Band, orchestra, piano, and guitar students experience multiple performing ensembles, intensive music theory, a sophomore jury and senior solo recital.

- YR1: Choice of: Band 3, Orchestra 3, Guitar 1 or Keyboard 1, Choice of: Jazz Ensemble, Chamber Orchestra, Steel Drums or another Magnet Elective, additional Magnet elective (3 electives total)
- YR2: Choice of: Band 4, Orchestra 4, Guitar 2 or Keyboard 2, Choice of: Jazz Ensemble, Chamber Orchestra, Steel Drums or another Magnet Elective, Music History (3 electives total)
- YR3: Choice of: Band 5H, Orchestra 5H, Guitar 3 or Keyboard 3, Choice of: Jazz Ensemble, Chamber Orchestra, Steel Drums or another Magnet Elective, Music Theory 2 Honors (3 electives total)
- YR4: Choice of: Band 6H, Orchestra 6H, Guitar 4 or Keyboard 4, Choice of: Jazz Ensemble, Chamber Orchestra, Steel Drums or another Magnet Elective, AP Music History (3 electives total)

VOCAL - Choral and solo voice techniques are the focus in this track.

- YR1: Chorus 3, Vocal Technique 1, additional Magnet elective
- YR2: Chorus 4, Vocal Technique 2, Music History
- YR3: Chorus 5H, Vocal Technique 3, Music Theory 2 Honors, Musical Theatre 1 (By audition)
- YR4: Chorus 6H, Vocal Technique 4, AP Music History, Musical Theatre 2 (By audition)

THEATRE - Using a natural progression of educating, modeling and performance, this track includes theatre, musical theatre and technical theatre.

- YR1: Acting 1, Technical Theatre 1, additional Magnet elective
- YR2: Acting 2, Technical Theatre 2, additional Magnet elective
- YR3: Acting 3, Technical Theatre 3, Directing 1, additional Magnet elective
- YR4: Acting 4, Technical Theatre 4, Directing 2 or Playwriting, additional Magnet elective
- Additional electives: Musical Theatre 1-3 (By audition), Chorus, Ballet and Fashion Design

WEKIVA HIGH SCHOOL

2501 North Hiawassee Road

Apopka, FL 32703

407.297.4900

wekivahs.ocps.net

Academy of Culinary Arts

Contact: Magnet Coordinator, Mr. Travis Brown, travis.brown@ocps.net

GPA: 2.5 recommended

Entrance: N/A

Working in a real world culinary educational setting, students master industry skills alongside opportunities to learn STEM components of food preparation and operation of commercial equipment and supplies. This magnet prepares students for jobs in the following areas: business manager, sous chef, restaurant manager, café manager, catering manager, pastry chef, charcuterie chef, equipment manager, facilities manager, sanitation manager, and other related careers and positions.

- YR1: Culinary 1
- YR2: Culinary 2

- YR3: Culinary 3 Hon
- YR4: Gastronomy and Culinary Management

Laser Photonics

Contact: Magnet Coordinator, Mr. Travis Brown, travis.brown@ocps.net

GPA: minimum 2.5 recommended and completion of Algebra 1

Entrance: N/A

Designed as a dual enrollment program in partnership with Valencia College, students showing an interest and aptitude in Science, Mathematics, and Technology learn laser and photonics technology and the opportunity to earn 39 college credits.

- YR1: DIT, AP Computer Science, Electronics
- YR2: MTB, Intro into Photonics, DC Circuits, AC Circuits
- YR3: Digital Systems 1 & 2, Semi Conductors, Intro into Electronics
- YR4: Intro into Lasers, Intro into Fiber, RF Communication, Wireless Data Communication, Fund of Micro

Agriscience

Contact: Magnet Coordinator, Mr. Travis Brown, travis.brown@ocps.net

GPA: 2.5 recommended

With an emphasis on aquaponics, biotechnology, animal science, agribusiness, and horticulture, the curriculum focuses on two tracks: Plant Science and Animal Science and Animal Husbandry. The Plant Science track is a dual enrollment in the Horticulture program at Valencia College and a student internship with the local University of Florida Research Center. The Animal Husbandry track is an incorporation of technology leading to a career in animal care or veterinary science.

- YR1: Ag Foundations
- YR2: AgriTechnology, Natural Resources, and Animal science.
- YR3: Agritechnology 2, Horticulture and Aquaponics, Forestry and Natural Resources, and Animal science. OJT, Dual Enrollment (Valencia College)
- YR4: Mechanics, Directed studies, Horticulture and Aquaponics, Forestry & Natural Resources, Animal science, OJT, Dual Enrollment (Valencia College)