



Ooh-Rah!

JROTC – A PROUD LEGACY

Palm Bay Magnet High's Marine Corps JROTC is an outstanding opportunity to build character, discipline and a bright future! JROTC teams include the **PT Team** (athletics), **Drill Team**, **Academic Team** and the **Rifle Team**! Lead by military veterans with nearly 50 years of military experience, cadets in Marine Corps JROTC at Palm Bay Magnet High receive rigorous and positively life-changing mentorship, professional development, a chance to become part of a proud legacy.



Athletics – A WINNING TRADITION

The Palm Bay Magnet High School Athletic Program offers a wide array of competitive sports programs from which students may choose to participate. Many of our programs have experienced a great deal of success on both local and state levels.

FALL SPORTS

- Varsity Bowling
- JV & Varsity Cross Country
- JV & Varsity Football
- Varsity Golf
- Varsity Swimming & Diving
- Freshman, JV & Varsity Volleyball

WINTER SPORTS

- Freshman, JV & Varsity Basketball
- JV & Varsity Soccer
- JV & Varsity Wrestling

**SPORTSMANSHIP
AT ITS BEST.**

SPRING SPORTS

- JV & Varsity Baseball
- Varsity Tennis
- JV & Varsity Softball
- Varsity Track & Field



Climb aboard...

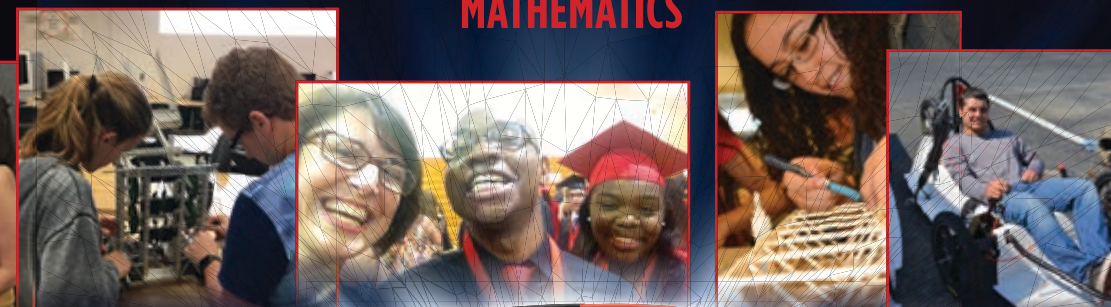
YOUR FUTURE IS ABOUT TO SET SAIL!



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SCIENCE
TECHNOLOGY
ENGINEERING
ARTS
MATHEMATICS



Palm Bay Magnet High School

YOUR CHOICE FOR EXCELLENCE IN **S.T.E.A.M.** EDUCATION





Palm Bay Magnet School High School



Palm Bay Magnet High School (PBMHS) was awarded the prestigious MSAP Grant to be a fully accredited Magnet School. The curricular model at PBMHS is **STEAM**: Science - Technology - Engineering - Arts - Mathematics.

Due to its status as a Federally Funded Magnet School, Palm Bay Magnet High School has no borders. Talented students from all over the county may apply to attend and take advantage of PBMHS's many academic programs.

FIVE PILLARS OF A MAGNET SCHOOL

- 1. DIVERSITY** - The PBMHS culture embraces diverse backgrounds and perspectives and is proud to have one of the most diverse student bodies in Brevard County.
- 2. INNOVATIVE CURRICULUM & PROFESSIONAL DEVELOPMENT** - STEAM provides many curricular options and 16 Magnet programs. PBMHS teachers are required to grow professionally each year to enhance their teaching practice.
- 3. ACADEMIC EXCELLENCE** - Students are offered Honors coursework, AP Coursework, 21st Century Magnet Pathway course offerings, and dual enrollment options.
- 4. HIGH QUALITY INSTRUCTIONAL SYSTEMS** - PBMHS has four core best practices within its curricular framework: 1) Collaboration 2) Technology Integration 3) Real World Application & 4) Student Discovery.
- 5. FAMILY & COMMUNITY PARTNERSHIPS** - PBMHS Family & Community Partnerships include strong relationships with organizations such as NASA, Harris, Florida Institute of Technology and Northrop Grumman.

Top Tier Media Center

Palm Bay Magnet High School's 3-time state award-winning media center is the hub of the school's collaborative learning. Here students and teachers come together for the synergistic environment that has been carefully cultivated by our energetic media staff.



STEM + Arts = STEAM!

STEAM is a curricular model that **builds on STEM by infusing the Arts throughout all subject areas**. In a STEAM curriculum, students are taught to think outside the box as they are challenged with rigorous STEM coursework. This modality of thinking challenges students to consider the unique ways in which subject matters are interrelated and to prepare students for college and careers.



AVID *Advancement Via Individual Determination*

AVID is a program designed to close the achievement gap by preparing ALL students for college and other postsecondary opportunities. PBMHS Teachers are trained to use research based strategies and curriculum resources to help develop students' critical thinking, literacy, and math skills across all content areas. Students in AVID benefit through participation in intensive, student driven tutorials, collaborative activities, and real world experiences. PBMHS is proud to deliver this experience to our students.



Magnet Programs – CAREER PATHWAYS TO SUCCESS!

ACADEMY OF VISUAL & PERFORMING ARTS

VISUAL ARTS

The award-winning Visual Arts program offers a full comprehensive 2-D Studio Art program including 2-D Studio Art 1, 2-D Studio Art 2, 2-D Studio Art 3 Honors and Advanced Placement Art (2-D Design Portfolio and Drawing Portfolio). The courses are taken sequentially to build a strong foundation in Visual Arts. The program also offers 3-D Studio Art 1 and 3D Studio Art 2.



DRAMA

PBHS has a very strong and positive Theatre Arts program here at PBMHS! The PBMHS Theatre Program is based upon a 3 tier system: Level I is the Foundation, Level II is for Styles & Character, & Level III and up is an Advanced Block. Theatre is comprehensive training program. Students are responsible for: Mainstage productions, District & State Competitions, Thespian Club, fundraising and community activities..



MUSIC EDUCATION

The Marching Band, along with our Drumline, is here to support our teams and the school with performances throughout the year. Students in the Symphonic Band and Orchestra have a minimum of 1 year of middle school performance experience. Participation in the Wind Ensemble is by invitation only and based on a successful audition. The PBMHS Jazz Band, aka, "The Jazz Ambassadors" is comprised of some of the strongest musicians in the instrumental program. There are four Choral Ensembles: Mixed Concert Choir, Advanced Mixed Concert Choir, Chamber Choir and Center Stage Show Choir.



FASHION TECHNOLOGY & DESIGN

Fashion Technology and Design offers a variety of coursework including Fashion Design, Production, and Merchandising – all perfect career pathway programs for students who like being creative and working with hands-on assignments. The program offers Industry Certification Exam for NOCTI Apparel and Textile Production and Merchandising. The program also partners with NASA's HUNCH "High school students United with NASA to Create Hardware" where students work directly with NASA Engineers to fabricate soft goods/textile projects to be used on the International Space Station.



ACADEMY OF APPLIED DESIGN & ENGINEERING

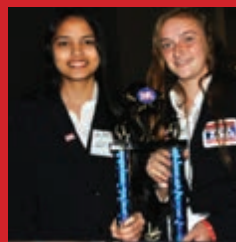
TECHNICAL DESIGN

Technical Design provides real world skills involving several varied drafting programs. The main platform that we use is AutoDESK Inventor, a 3-D parametric modeling program currently used in several industries around the world. In this program students will generate 3-D parts and assemblies that can be viewed and tested in a virtual world. This ability is growing in the design community as designers and engineers can create parts and assemblies and run varying types analysis prior to physically building the part.



APPLIED ENGINEERING

Applied Engineering provides a foundation of knowledge and experiences in the study of applied engineering. This program offers certification in Solidworks and focuses on transferable skills and understanding of technological tools, materials, processes and systems used in mechanical, electrical, civil, and environmental engineering professions. Our Engineering and Technical Design program earned Architectural Design Top 10 in the Nation. Engineering students participate in NASA Hunch, High School Students United with NASA to Create Hardware, Electrathon, Northrup Grumman High School Innovation Challenge (winning two years in a row), and the Horizon Hydrogen Challenge.



APPLIED ROBOTICS

Applied Robotics provides students with a foundation of knowledge and technically oriented experiences in the study of the principles and applications of robotics engineering and its effect upon our lives and the choosing of an occupation. Students receive RECF Foundation Certification in Robotics and Pre Engineering and compete in VEX robotics where "Piratech Robotics" students have been recognized in Design and Excellence for an all-around Robot.



BUILDING CONSTRUCTION TECHNOLOGIES

This program offers 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 Architecture & Construction career cluster; provides technical skill proficiency, and includes competency-based applied learning, problem-solving skills, and skills in various construction trades and management.



ACADEMY OF HEALTH & PUBLIC AFFAIRS

CULINARY ARTS

Palm Bay Magnet high school culinary arts program is one of the five high school culinary programs offered in Brevard County. Our culinary arts program is certified by the National Restaurant Association Educational Foundation (ProStart) and designed to introduce the basic fundamentals, discipline and skills required for a successful career in the food service industry. The program is intended to be a life enhancing experience, career exploration, as well as a gateway to further quality culinary education through advanced standing with post-secondary culinary colleges and universities.



BIOSCIENCE

Bioscience provides studies on natural history, and conservation of plants and animals; investigate the interactions of living organisms with light, the environment, or each other to pursue well compensated careers in pharmaceuticals, biotechnology, or medical research. Bioscience is a laboratory based course that focuses on developing skills currently used in the medical, agricultural, marine and industrial bioscience fields.



PATIENT CARE ASSISTANT PROGRAM

The Patient Care Assistant certificate program prepares students for employment as a Certified Nursing Assistants (CNA) and Home Health Aides (HHA). Students interested in the healthcare field pursue this program to gain entry into Nursing, Medicine, Occupational/Physical Therapy, Pharmacy, Dental Science, and many other career opportunities. Upon completion of the program, the student will receive a Postsecondary Adult Vocational (PSAV) Certificate in Patient Care Assistant from Eastern Florida State College and can take the Florida Nursing Assistant Certification Exam.



EARLY CHILDHOOD EDUCATION

The Early Childhood Education program provides students with the skills necessary to work with children in a variety of professional early childhood settings. The courses instruct students in all areas of ECE, including child growth and development, health, safety and nutrition, developmentally appropriate practices, and observation and screening. Students also gain hands-on experience through PIRATE Preschool, PBMHS's On-Site Voluntary Pre-Kindergarten Program.



CRIMINAL JUSTICE

The Criminal Justice program is designed to give students exposure to the fields of law enforcement, courts, corrections and juvenile justice. Students in this program will be working with actual law enforcement professionals and following the Department of Education's Career Pathway for Criminal Justice Operations. At the completion of the program students take the Criminal Justice Examination developed by the National Occupational Competency Testing Institute (NOCTI).



ACADEMY OF COMPUTER SCIENCE

COMPUTER PROGRAMMING

The program encompasses the fundamentals of computing, the machines and processes. Foundations of Computer Programming introduces programming using the Java language, which will give them the ability to write Android apps. The second and third years are solid web development years with courses in HTML, CSS, JavaScript and more. Advanced Placement Computer Science Principles course covers big ideas about computing, explores innovations, and creates computational products.



DIGITAL MEDIA

This program introduces students to the structure of art through the medium of digital photography and digital image manipulation. Coursework explores the process of learning new ways of seeing and creating through intentional and purposeful arrangement of visual elements. Students learn about design and how its principles and elements affect the way we make art and look at the world around us.



GAME DESIGN & SIMULATION

This course covers fundamental principles of designing a game or a simulation application using Human Computer Interface (HCI) principles, rules and strategies of play, conditional branching, design and development constraints, use of sound and animation, design tools, and implementation issues. The content includes market research, product design documentation, storyboarding, proposal development, and presentation of a project report.

