Magnet Programs

An overview for prospective students







What is a Magnet?

- A unique program for focused interests
- Nationally recognized
- Attracts students from all areas of Harford County
 - Application process

Goal: Prepare students for secondary- and postsecondary successes in academics and careers related to their programs of study.







Current Offerings

1. Global Studies International Baccalaureate, Edgewood

5. Pathways in Technology EarlyCollege High School, Joppatowne

2. Information Technology Oracle Academy, Havre de Grace

6. Science and Mathematics Academy, Aberdeen

3. Junior Reserve Officers' Training Corps, Joppatowne

7. Teacher Academy of Maryland & TAM+, multiple sites

- 4. Natural Resources and AgriculturalSciences, North Harford
- **8.** Trades and Industry programs, Harford Tech





What do Magnet students learn?

Durable Skills:

- Critical and Innovative Thinking Systems
- Inquiry
- Problem-Solving
- Time Management
- Research
- Communication



Through advanced and collegiate coursework in fields related to

- Engineering
- Medicine
- Technical
- Computer Science
- Animal Science
- Trades and other areas.





Global Studies International Baccalaureate

Students develop a global perspective and are empowered to affect change in their communities in the areas of

- STEM (Science, Technology, Engineering, and Math)
- Humanities
- Arts
- Philosophy



Successful completion of Algebra I is required.

Geometry is recommended and may be taken in the summer prior to 9th grade.





Information Technology Oracle Academy



Successful completion of Algebra I prior to 9th grade is recommended.

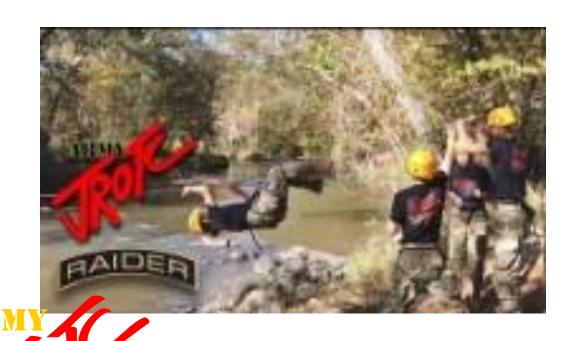
- Computer Programming and Database Design
- Java and PL/SQL languages
- 16 Dual Enrollment courses with Harford Community College
- Internship and Info Tech Apprenticeship opportunities





Junior Reserve Officers' Training Corps

- 1. Act with integrity and personal accountability as you lead others to succeed in a diverse and global workforce
- 2. Engage in civic and social concerns in the community, government, and society
- 3. Graduate prepared to succeed in post-secondary options and career pathways
- 4. Make decisions that promote positive social, emotional, and physical health
- 5. Value the role of the military and other service ARM organizations







Natural Resources & Agricultural Sciences



Successful completion of Algebra I prior to 9th grade is recommended.

4 Dynamic Strands Large Animal Sciences

- Animal Management
- Comparative Anatomy & Physiology

Small Animal Sciences

- Animal Management / Vet Tech
- Comparative Anatomy & Physiology

Plant Sciences

- Plant Propagation and Production
- Edible, Environmental, and Ornamental Plants

Natural Resources Science

- Wildlife Management
- Wetlands and Aquatics







Pathways in Technology Early College High School

- 2 Dynamic Strands
 - Computer Information Systems
 - Cybersecurity
- Graduate high school with 60 hours towards an Associate Degree
- 3 Industry Certifications
 - Network Plus
 - Security Plus
 - A Plus
- 2 Community Partners/Mentors
 - CECOM (APG)
 - Harford Community College









Science and Mathematics Academy



Successful completion of Algebra I and Geometry is required. Geometry may be taken in the summer prior to 9^{th} grade.



- Authentic hands-on research
 - Science, Research, and Technology (SRT)
- Design experiments and analyze data to develop solutions
- Preparing for success in STEM
 - Engineering (all branches)
 - Mathematics
 - Science (Biology, Chemistry, Physics)
 - Computer Science





Teacher Academy of Maryland and TAM+

- For aspiring teachers or related fields working with children
- TAM courses are weighted.
- Guaranteed internships for TAM and TAM+ students
- Option to earn college credit in the TAM+ program
 - Associate Degree of Arts in Teaching
 - All associated fees are paid for by HCPS

Program is offered at multiple sites











Trades at Harford Technical High School



- 1. Academy of Health Professions
- 2. Automotive Diagnostic System Repair
- 3. Automotive Refinishing and Repair
- 4. Carpentry
- 5. Computer-Aided Drafting and Design
- 6. Computer-Aided Machining
- 7. Cosmetology
- 8. Electrical
- 9. Food Preparation and Management
- 10. Heating Ventilation and Air Conditioning
- 11. Horticulture Floral Design and Landscaping
- 12. IT Networking
- 13. Printing and Graphics Communications
- 14. Sports Medicine and Exercise Science
- 15. Welding







Applying to a Magnet Program

APPLY ONLINE FOR UP TO 3 PROGRAMS

- Choose only 1 program at Harford Tech
- Applications open Friday,
 October 13 and close Friday,
 December 1 at 12:00 am.

WHAT IS CONSIDERED?

- Academic achievement in middle school
- Extracurricular Activities
- Essay response/writing sample
- Teacher endorsements







For more information,

- ✓ Schedule time to meet with your School Counselor.
- ✓ Meet the Program Specialists at an upcoming middle school visit.
- ✓ Attend a Magnet Information Night or Open House events.

www.hcps.org/magnetprograms for dates, times, and locations





Follow us @HCPS_CTE for information and reminders

