2022-2023

Magnet and Technical Programs Information Night
The Magnet and Technical Program Application window is now closed.

- Capstone/Senior Recognition Ceremonies 2022-2023
- Parent & Student Information Night Schedule 2022-23
- Harford Technical High School YouTube Playlist
- Other Magnet Programs YouTube Playlist
- Magnet - Technical Programs Brochure (2021-2022)
What do we look at?

- Grades/GPA
- Standardized testing
- Teacher endorsement
- Activity List
- Essay
- Assessment (following initial screening)
Application Timeline

- Closing date for applications: 1 Dec.
- Candidate evaluation and notification of next steps: Jan.–Feb. 2023
- Notification of acceptance status: Feb. 2023
- Final decisions due to Program Specialists: Mar. 2023
- Final decisions due to Program Specialists: Mar. 2023
Program Specific Requirements

Global Studies/International Baccalaureate
– Algebra I required; Geometry recommended

Natural Resources and Agricultural Sciences and Information Technology Oracle Academy
– Algebra I recommended

Science and Mathematics Academy
– Algebra I and Geometry required before entering 9th grade

Harford Technical
Attendance
Program specific requirements can be found on the application
Round 2 - Next Step in the Admissions Process

- Students who meet the minimum admissions criteria for:
  - IB, SMA and NRAS will be invited to take a Virtual Entrance assessment in January. Details with the date and time of the assessment will be sent to invited students.
  - Harford Technical, ITOA and TAM will review report cards for Quarter 2
  - PTECH – Intent meetings
All applications will be submitted online (including non-HCPS students)

If you need help – use the “Guide to the On-Line Application” found in your booklet, see your counselor, or contact the appropriate Program Specialist

You may apply to a maximum of 3 programs

This includes only 1 from Harford Technical
Teacher Endorsements

• All HCPS students – you will select your 8th grade teachers from a drop-down menu. There is nothing more you need to do.

• All non-HCPS students
  1. Teachers contact information will be added under the personal information tab.
  2. Correct teacher email is required
All admissions notifications will be sent electronically.

PLEASE be sure both parent and student email addresses are accurate, valid, and checked regularly.

Set your email filter to accept emails from webmaster@hcps.org and our Program Specialists' email addresses.

Check your SPAM folder.
Transportation

GSIB, ITOA, NRAS, PTECH, TAM and SMA will utilize the high school depot stops.

Harford Tech uses consolidated bus stops.

There is no charge for transportation.

The HCPS Transportation Office will send information out in mid-August with information on bus numbers and pick up times for each of the locations for those students outside of their attendance area.
To engage and prepare
Our diverse school community
For a unique comprehensive
Technical experience that aligns to both
College and careers

POSITIVE RELATIONSHIPS
SAFE AND SUPPORTIVE ENVIRONMENT
DISCIPLINED BEHAVIORS
AUTHENTIC LEARNING
17

M.S.D.E.
Career and Technical Programs
<table>
<thead>
<tr>
<th>Academy of Health Professions – Nursing</th>
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</thead>
<tbody>
<tr>
<td>Automotive Diagnostics System Repair</td>
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<tr>
<td>Automotive Refinishing and Repair</td>
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<tr>
<td>Carpentry</td>
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<tr>
<td>Computer Aided Drafting and Design</td>
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<td>Computer Aided Machining</td>
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<td>Cosmetology</td>
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<td>Electrical</td>
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<td>Food Preparation and Management</td>
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<td>Heating Ventilation and Air Conditioning</td>
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<tr>
<td>Horticulture – Floral Design and Landscaping</td>
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<tr>
<td>IT Networking</td>
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<tr>
<td>Printing and Graphics Communications</td>
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<tr>
<td>Sports Medicine and Exercise Science</td>
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<tr>
<td>Teacher Academy of Maryland</td>
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<tr>
<td>Welding</td>
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</tbody>
</table>
TRANSITION OPPORTUNITIES
<table>
<thead>
<tr>
<th>Essential Characteristics of Practice</th>
<th>Professional 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety</td>
<td>Meets all safety standards; fully maintains all tools/materials.</td>
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<tr>
<td>Work Ethic</td>
<td>Completes all tasks promptly with thorough attention to detail.</td>
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<tr>
<td>Communication</td>
<td>Consistently uses clear, organized language, practices active listening skills, and effectively respects self and others.</td>
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<tr>
<td>Preparation for class</td>
<td>Brings all supplies needed for class, follows instructions, and meets quality expectations.</td>
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<tr>
<td>Participation</td>
<td>Actively engages in all classroom exercises and accepts responsibility for choices.</td>
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<tr>
<td>Perseverance</td>
<td>Makes meaning of tasks, tries different approaches independently, and corrects work with positive mindset.</td>
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<tr>
<td>School Policies</td>
<td>Abides by all technical area policies including timeliness, cell phones, food, and dress code.</td>
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<tr>
<td>Informal content check points</td>
<td>Completes all content learning check points including drills, closures, reflections, etc.</td>
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<tr>
<td>Subject Area</td>
<td>Specific Credit Requirements</td>
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<tr>
<td><strong>English</strong></td>
<td>4 credits</td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>4 credits, including</td>
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<tr>
<td></td>
<td>• 1 in Algebra I</td>
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<td></td>
<td>• 1 in Geometry</td>
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<tr>
<td><strong>Must be enrolled in a mathematics</strong></td>
<td>course in each year of high school. <em>Maximum of 4 years of attendance, unless in the 5th or 6th year a mathematics course is needed to meet a graduation requirement.</em></td>
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<tr>
<td><strong>Science</strong></td>
<td>3 credits, including</td>
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<td></td>
<td>• Students must complete coursework reflecting content from all three science disciplines: Earth and Space Science, Life Science, and Physical Science. Select the link: Science to view science course options.</td>
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<tr>
<td><strong>Social Studies</strong></td>
<td>3 credits, including</td>
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<td>• 1 in American Government</td>
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<td>• 1 in World History</td>
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<td>• 1 in U.S. History</td>
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<tr>
<td><strong>Fine Arts</strong></td>
<td>1 credit</td>
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<td><strong>Physical Education</strong></td>
<td>1 credit, including</td>
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<td>• 0.5 credit must include Foundations of Fitness and Physical Activity</td>
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<td><strong>Health</strong></td>
<td>1 credit</td>
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<td><strong>Technology</strong></td>
<td>1 credit, including</td>
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<td></td>
<td>• Foundations of Technology or AP Computer Science Principles</td>
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<td><strong>Career Pathway and Completer</strong></td>
<td>4-6 credits, including</td>
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<tr>
<td>Program Requirements</td>
<td>• 4 credits in an approved Career &amp; Technology Education (CTE) Career Completer Program</td>
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<td>or</td>
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<td>• 4 credits in a Career Pathway Program + 2 credits of same World Language + University Systems of Maryland (USM) requirements (4 years of math including Algebra II or beyond in the senior year)</td>
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<td><strong>Electives</strong></td>
<td>May vary according to program.</td>
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<td>Technical Skills Assessments</td>
<td>Articulations/Dual Credit</td>
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<tr>
<td>Grade 12:</td>
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<tr>
<td>CNA</td>
<td>HCC: (3 credits)</td>
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<tr>
<td>GNA</td>
<td>CCBC: (3 credits)</td>
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<td>CCMA</td>
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<tr>
<td>Math: Statistics + Science:</td>
<td>Student must maintain a 3.0</td>
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<tr>
<td>Bio, A&amp;P</td>
<td>grade point average each</td>
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<td>ELA: Lexile 1220</td>
<td>quarter.</td>
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</tbody>
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Technical Skills Assessments

Industry Certifications

Internships

Curriculum Competencies

College Dual Credit & Articulation
HTHS
Student Body
19 Sports Teams

26 Clubs & Organizations
November 3rd

https://hths.ss18.sharpschool.com/
Mrs. Sarah Ashley, SMA Program Specialist
Our Goals

1. To prepare students to succeed in any STEM major in college:
   - Engineering (all branches)
   - Mathematics/Statistics
   - Science (Biology, Chemistry, Physics)
   - Computer Science

2. To teach students how to think critically and problem solve.
SMA Student Body

• Our students are **Motivated, Hardworking, Curious, and Independent** – they don’t shy away from a challenge and aren’t afraid to ask for help with it if it is needed!

• Representation from all HCPS middle schools as well as several private schools

• SMA students are **INVOLVED!**
  - Student athletes (representation on every team at AHS – all sports are offered at AHS)
  - Members of the band, chorus, and orchestra
  - Participate in clubs
  - Members of Honor Societies
  - Drama Production Cast/Crew and Dance
What makes the SMA unique?

• Small learning community (students and staff)
• Semester electives in STEM
• Science, Research, and Technology (SRT) 4-year sequence of courses (real-world hands-on research)
• Additional topics covered in AP and Honors classes
Special Classes (11th and 12th grade semester electives)

- Algorithm Development
- Astrophysics
- Biochemistry
- Biotechnology
- Cryptology
- Design Engineering
- Ecology
- Kinesiology
- Linear Algebra
- Materials Science
- Mathematical Logic
- Microcontrollers
- Organic Chemistry
- Principles of Engineering
- Research Design in STEM
- Robotics
- Statistics using R
Science, Research, and Technology (SRT)

• 4-year sequenced series of courses
  ▪ 9th grade: semester (1/2 credit)
  ▪ 10th grade: full year (1 credit)
  ▪ 11th grade: full year (1 credit)
  ▪ 12th grade: double block (2 credits)

• STEM curriculum
• Project-based
• Design experiments and analyze data
<table>
<thead>
<tr>
<th>9th</th>
<th>10th</th>
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<tbody>
<tr>
<td>Honors Algebra 2</td>
<td>Trigonometry</td>
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<tr>
<td>AP Environmental Science</td>
<td>AP Statistics</td>
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<tr>
<td>Honors Biology</td>
<td>Honors Chemistry</td>
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<tr>
<td>SRT 1/Health</td>
<td>SRT 2</td>
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<tr>
<td>Honors English 9</td>
<td>Honors English 10</td>
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<tr>
<td>Honors Government</td>
<td>World History (AP or standard)</td>
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<td>Band/Chorus/Orchestra/Art</td>
<td>Band/Chorus/Orchestra/Art/Elec.</td>
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<td>Foreign Language</td>
<td>Foreign Language</td>
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<tr>
<td>11th</td>
<td>12th</td>
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<tr>
<td>AP Calculus AB</td>
<td>AP Mathematics</td>
</tr>
<tr>
<td>AP Physics: Mechanics</td>
<td>AP Science</td>
</tr>
<tr>
<td>SRT 3</td>
<td>SRT 4 (2 credits)</td>
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<tr>
<td>SMA Semester Electives</td>
<td>SMA Semester Electives</td>
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<tr>
<td>English 11 (AP or standard)</td>
<td>English 12 (AP or standard)</td>
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<tr>
<td>US History (AP or standard)</td>
<td>Band/Chorus/Orchestra/Art/Elec.</td>
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<tr>
<td>Band/Chorus/Orchestra/Art/Elec.</td>
<td>Foreign Language/Elec.</td>
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<td>Foreign Language/Elec.</td>
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</tbody>
</table>

All **SMA classes (bold)** are taught by one of the 8 SMA dedicated faculty members and are located in the SMA (3rd floor of AHS).

We hope to see you at our Open House on October 27!
What is the IB Program?

For Prospective Ninth Grade Students
Our Program . . .

- Is geared toward students who want to experience collegiate courses in high-school.
- Is designed to approach all learning with a global perspective and international-mindedness.
- Is an international program in which students focus on all areas of study, STEAM, Humanities, Arts, and Philosophy in a collaborative way.
- Is developed to inspire students to be active participants in their local and global communities.
The IB Learner Profile...

...is the IB mission statement translated into a set of learning outcomes for the 21st century.

As IB learners, we strive to be and are looking for students who are:

- Inquirers
- Principled
- Knowledgeable
- Caring
- Thinkers
- Open-minded
- Communicators
- Balanced
- Risk-Takers (Courageous)
- Reflective
Who should enroll in Global Studies Honor courses and IB DP courses?
G.S. = 9\textsuperscript{th} and 10\textsuperscript{th} Grade IB PREP
11\textsuperscript{th} and 12\textsuperscript{th} Grade Diploma Program

Students who…

• Are intentional with their work.
• Are organized in their study habits.
• Are self-aware and self-sufficient.
• Bring reading, writing, and speaking skills to the courses.
• Are reflective about their learning.
• Are willing to negotiate with more challenging and sophisticated work
• Are interested in international studies
• Are excited to excel in the Humanities, the Arts, and STEAM
• Are service oriented for local, national, and global communities
• Are ready to develop and pursue their own learning interests, objectives, assessments, and curriculum
FAQ? Why should I enroll in IB?

• It is a rich, challenging program of study in which all courses during junior and senior year are college level courses.
• It provides a curriculum that connects the disciplines; learning is integrated, and critical thinking skills are developed.
• **Students frequently earn college credit and advanced placement status. Up to and sometimes over 30 college credits starting college with Sophomore Standing!**
• In addition to your High School Diploma, you leave with an Internationally recognized Diploma
• Students are extremely well prepared for college work, both the rigorous demands of the subjects and the time management required.
• Students participate in creative and service-oriented activities.
• Students reflect on growth academically and personally.
• Students become more globally minded.
• Students get to develop their own course-work of study.
• Students leave with the ability to persuasively make written or verbal arguments in any course of study.
• Students leave with the ability to handle any-type of research for future college or careers.
DP IB Courses Offered:

- English Literature HL
- French SL
- Spanish SL
- History of the Americas HL
- Geography SL/HL
- Biology HL
- Chemistry HL
- Math Applications SL
- Math Analysis SL
- Visual Arts HL/ SL
- Music HL/ SL
- Film SL
- Theatre SL
- Psychology SL
- Sports, Exercise and Health SL
- Physics SL
- World Religions SL
- Theory of Knowledge
Join us

- November 2nd 6- 8pm for our open house
Our Goal

To provide students with essential knowledge, experiences, and opportunities for pursuing academic, vocational, and recreational futures in the management of natural resources and agricultural sciences.

To develop future leaders, business owners, and advocates to support the growth of Maryland industries related to Natural Resources and Agricultural Sciences.
4 Dynamic Strands of Learning

**Large Animal Science**
- Animal Management
- Comparative Anatomy & Physiology of Farm Animals

**Small Animal Science/Vet Asst.**
- Comparative Anatomy & Physiology of Companion Animals

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

**Natural Resources Science**
- Wildlife Management
- Wetlands and Aquatics
Our Campus
Frequently Asked Questions

Q. Can I be in more than One Strand?
A. No, you are accepted to One Strand, you will rank strands first through fourth choice. We offer electives that can scheduled beginning sophomore year if you have interest in multiple strands.

Q. Are all classes taken with only Magnet students?
A. You will take the NRAS class with other Magnet students, All other classes you are integrated with North Harford Students

Q. How do I get to school?
A. Students in the North Harford area will ride buses assigned to the area. Students who are from outside the area will utilize the depot stops.
Mr. Robert Scott
Program Coordinator
robert.scott@hcps.org
Oracle Academy Curriculum Overview

- Database Foundations
- Database Design
- Java Fundamentals
- Java Foundations
- Computer Science Principles
- Computer Science A
Internships or Courses at HCC
Information Technology
Oracle Academy

Our students
• are a diverse group, representing every middle school in the county
• will be prepared to enter a field or pursue higher education in computer science.
• have career connections when leaving high school.
What we look for in students

• Evidence you are interested in technology
• Projects you’ve completed
• A rigorous middle school course load
• Things that are show you are involved
Will you join us?

Open House October 18th at 6:30
P-TECH
Joppatowne HS

Pamela Zeigler Principal JHS
Rob Limpert, Supervisor CTE HCPS

Shomari Zachary, P-TECH Coordinator
Harford County Public Schools

Marc Minnick, Dean
Harford Community College

Casi Boyer, HR Specialist
Communications-Electronics Command
P-TECH Overview...

- Pathways in Technology Early College High School – Joppatowne HS
- Students earn a high school diploma, an industry-recognized associate degree, gain relevant work experience in a growing field and become certified with passing test scores.
- High school students graduate with a HS diploma and Associate’s Degree from Harford Community College (HCC) in either four, five, or six years dependent on their current math course.
- Two Pathways; Computer Information Systems or Cybersecurity
- Classes held virtually or on JHS campus. College classes during the day and during the summer.
- Support Systems built into the program; tutoring, counseling, mentoring etc.
- Students participate in a variety of experiences to build their professional and technical skills. (field trips, P-TECH Seminar, Soft skills training, speakers, Hour of Code, etc.
- $20,000 value for Free
CECOM's Role in P-TECH

- Mentoring
- Shared Experience
- Team Based
- Internship
- Hands-On Experience
- 6 Week, Paid
HCC Process

Apply to HCC
- Spring of Freshman Year
- Meet with college Advisor
- Information Release (FERPA)

Readiness
- Explore Campus
- Explore Resources
- Blackboard Training
- Owlnet Training

SOAR
- First college course in summer prior to 10th grade
- Showcase skills and learning
Commitment to our P-TECH Family

**P-TECH @ JHS**
- Timely information on updates and program
- Monitor student progress
- Creation of support systems
- Courses to prepare students for personal and professional skills
- Student activities and support at JHS (ADMIN)

**Harford Community College**
- College courses that lead to an Associates Degree in CIS or Cyber
- Student advisory resources
- Registration support and guidance to complete pathway.
- Support systems

**CECOM**
- 6 week summer paid internship
- Mentorship throughout the P-TECH Journey
- Hands on learning experiences
- Soft Skills training
- Job consideration
Our P-TECH Students...

- 90 students from around the County
- Diverse student representation
- 43 students currently taken college courses
- 78 students currently taken AP courses
Commonly Asked Questions

1) How many applicants do you receive and how many applicants will be accepted.
   We estimate at least 200+ applicants, 30 are chosen by lottery

2) My child has a 504 or an IEP, can they apply to P-TECH
   P-TECH is open to all applicants and there are no prerequisites or tests that are required.

3) Where and what time of day will my child take college courses?
   College courses are offered by HCC and most classes will be taken online or at Joppatowne during their regular schedule.

4) What makes P-TECH different from the other HCPS schools that have technology programs
   P-TECH offers different certifications, an associate’s degree, and a paid internship

5) Does Joppatowne offer sports?
   Joppatowne offers sports and clubs just like any other High School
Teacher Academy of Maryland

Edgewood High School, Harford Technical High School
Alissa C. Thomas, Teacher Specialist
A State Approved Career and Technology Education Program and Career Pathway
TAM Student Profile

“Those who can, teach!”

TAM is suited for students who:

◊ Enjoy challenging academic course work.
◊ Are interested in developing leadership skills and qualities.
◊ Want to explore or desire a career in education or a related role.
◊ Seek practical experience (Internship) in a middle- or high- school setting.
◊ Want to earn college credits and scholarships.
Careers in Education

- Teacher Pre-K
- Teacher Elementary School
- Teacher Middle School
- Teacher High School
- Teacher Special Education
- Professor College
- Administrator All Levels
- School Counselor
- School Psychologist
- JV /Varsity Athletic Coach
- Reading Specialist
- Speech Therapist
The Student Journey in the Teacher Academy of Maryland

Acceptance

Students apply and are accepted into the program. No prerequisites are required.

High School Coursework

Students acquire their high school diploma completing all MSDE coursework, including the 4 courses required for the Teacher Academy of Maryland. TAM courses are weighted in the GPA.

Internship

Students are guaranteed a classroom internship in a Harford County Public school with a master teacher. This internship is supervised by the program coordinator.
The Student Journey in the Teacher Academy of Maryland Plus
AN EARLY COLLEGE PROGRAM

Acceptance
Students apply and are accepted into the TAM program. Students may apply for TAM+ at the end of 9th grade.

High School Coursework
Students acquire their high school diploma and complete the 4 courses required for the Teacher Academy of Maryland completing all MSDE coursework in 4 years. TAM courses are weighted in the GPA.

College Coursework
Students acquire their Associates of Arts in Teaching in either 4 or 5 years from HCC, while completing their HS Diploma. Fees, tuition, supplies, and more are all paid for by HCPS. Students will have an HCPS teacher who serves as their mentor and liaison to HCC.

Internship
Students are guaranteed a classroom internship in a Harford County Public school with a master teacher. This internship is supervised by the program coordinator.

TAM+
TEACHER ACADEMY OF MARYLAND
Open House Dates
6:30 to 8:00 PM

- These can also be found in your booklet and on www.hcps.org
  - October 1- Natural Resources and Agricultural Sciences
  - October 11 – PTECH- Pathways in Technology Early College High School
  - October 18 – Information Technology – Oracle Academy
  - October 26- Teacher Academy of Maryland–TUNE Center
  - October 27- Science and Mathematics Academy
  - November 2– International Baccalaureate
  - November 3 – Harford Technical High School – All Technical Programs
http://www.hcps.org/Schools/MagnetPrograms

Harford County Public Schools Magnet and Technical Programs

The Magnet and Technical Program Application window is now closed.

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