

2022-2023

Magnet and  
Technical Programs  
Information Night



# HCPS COVID-19 RESOURCES

- CALENDAR
- HOME ACCESS CENTER
- SCHOOL/BUS LOCATOR
- TECHNOLOGY RESOURCES
- MENUS
- PAYMENT OPTIONS
- PARENT PORTAL
- OFFICE 365
- EMPLOYMENT OPPORTUNITIES

- ABOUT US
- PARENTS
- STUDENTS
- STAFF
- COMMUNITY
- BOARD OF EDUCATION
- SUPERINTENDENT

<http://www.hcps.org/Schools/MagnetPrograms>

## Harford County Public Schools Magnet and Technical Programs

### Our Schools

- Before and After Care
- Boundary Exceptions
- Enrollment
- Feeder School Information
- Food and Nutrition
- Harford Glen
- Home Access Center (HAC)
- MD Report Card
- Register for School

**i** 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

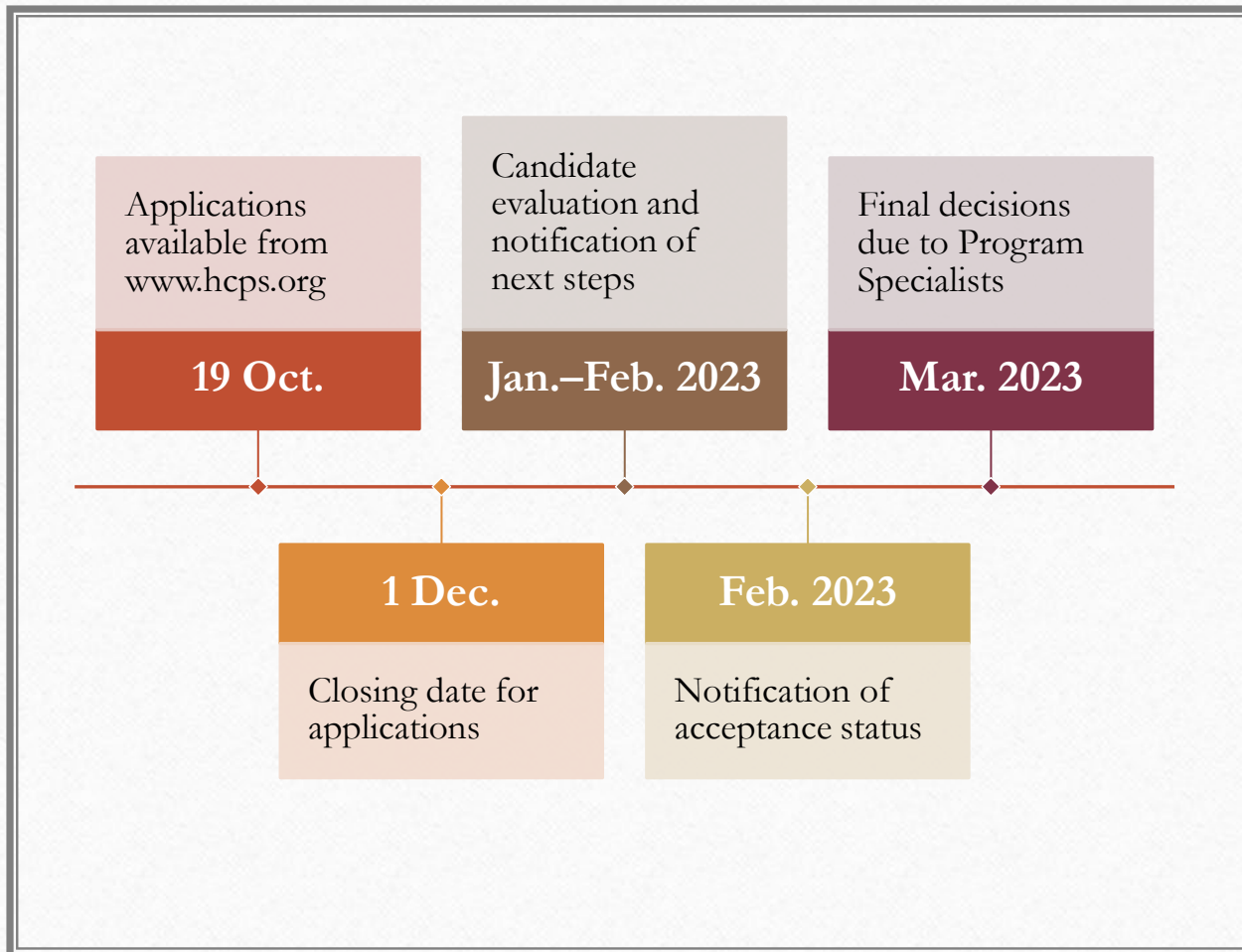
Other Magnet Programs YouTube Playlist

Magnet - Technical Programs Brochure (2021-2022)

# Admission Requirements

What do we look at?

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



# Application Timeline

# 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  
9<sup>th</sup> 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

# The Application Process



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 8<sup>th</sup> 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



## Communication



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



# Harford Technical High School



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



**Academy of Health Professions – Nursing**

**Automotive Diagnostics System Repair**

**Automotive Refinishing and Repair**

**Carpentry**

**Computer Aided Drafting and Design**

**Computer Aided Machining**

**Cosmetology**

**Electrical**

**Food Preparation and Management**

**Heating Ventilation and Air Conditioning**

**Horticulture – Floral Design and Landscaping**

**IT Networking**

**Printing and Graphics Communications**

**Sports Medicine and Exercise Science**

**Teacher Academy of Maryland**

**Welding**

# ***TRANSITION OPPORTUNITIES***





2019 Whitehall

CROSS XC

BOYS

Monkton

Jarrettsville

Street

Darlington

Forest Hill

Havre de Grace

Churchville

Bel Air  
21014

Bel Air  
21015

Baldwin

Fallston

Aberdeen

Joppa

Abingdon

Belcamp

Edgewood

Aberdeen  
Proving Ground



<b>Essential Characteristics of Practice</b>	<b>Professional 4</b>
<b>Safety</b>	Meets all safety standards; fully maintains all tools/materials.
<b>Work Ethic</b>	Completes all tasks promptly with thorough attention to detail.
<b>Communication</b>	Consistently uses clear, organized language, practices active listening skills, and effectively respects self and others.
<b>Preparation for class</b>	Brings all supplies needed for class, follows instructions, and meets quality expectations.
<b>Participation</b>	Actively engages in all classroom exercises and accepts responsibility for choices.
<b>Perseverance</b>	Makes meaning of tasks, tries different approaches independently, and corrects work with positive mindset.
<b>School Policies</b>	Abides by all technical area policies including timeliness, cell phones, food, and dress code.
<b>Informal content check points</b>	Completes all content learning check points including drills, closures, reflections, etc.

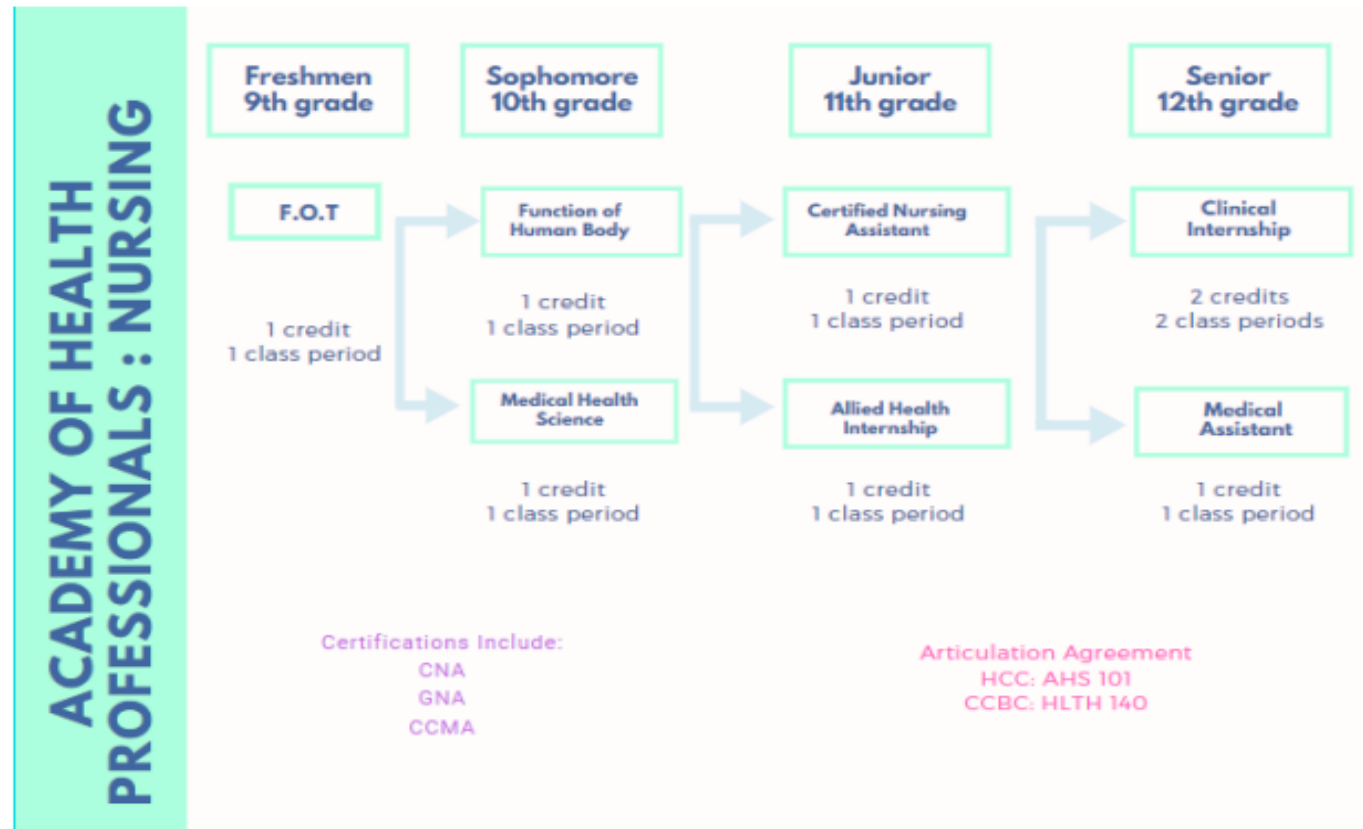


# ***HABITS OF SUCCESS***

# HCPS Graduation Requirements

Subject Area	Specific Credit Requirements
English*	4 credits
Mathematics*	4 credits, including <ul style="list-style-type: none"> <li>• 1 in Algebra I</li> <li>• 1 in Geometry</li> </ul> <p><b>Must be enrolled in a mathematics course in each year of high school</b> (<i>maximum of 4 years of attendance, unless in the 5th or 6th year a mathematics course is needed to meet a graduation requirement</i>)</p>
Science*	3 credits <ul style="list-style-type: none"> <li>• Students must complete coursework reflecting content from all three science disciplines: Earth and Space Science, Life Science, and Physical Science. Select the link <i>Science*</i> to view science course options.</li> </ul>
Social Studies*	3 credits, including <ul style="list-style-type: none"> <li>• 1 in American Government</li> <li>• 1 in World History</li> <li>• 1 in U.S. History</li> </ul>
Fine Arts	1 credit
Physical Education	1 credit <ul style="list-style-type: none"> <li>• 0.5 credit must include Foundations of Fitness and Physical Activity</li> </ul>
Health	1 credit
Technology	1 credit <ul style="list-style-type: none"> <li>• Foundations of Technology or AP Computer Science Principles</li> </ul>
Career Pathway and Completer Program Requirements	4-6 credits <ul style="list-style-type: none"> <li>• 4 credits in an approved Career &amp; Technology Education (CTE) Career Completer Program</li> </ul> <p style="text-align: center;">or</p> <ul style="list-style-type: none"> <li>• 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)</li> </ul>
Electives	May vary according to program.

Technical Skills Assessments	Articulations/Dual Credit	High School Course Recommendations	Post-Secondary			Seat Capacity
<b>Grade 12:</b> CNA GNA CCMA  Math: Statistics + Science: Bio, A&P ELA: Lexile 1220	<b>HCC: (3 credits)</b> <b>CCBC: (3 credits)</b>  Student must maintain a 3.0 grade point average each quarter.	<ul style="list-style-type: none"> <li>• Chemistry</li> <li>• Physics</li> <li>• Biology</li> <li>• Statistics</li> <li>• A &amp; P</li> <li>• AP Coursework</li> </ul>	Associates or below	Bachelors	Masters	<b>Minimum: 10</b> <b>Maximum: 24</b>
			Nursing Assistant	Registered Nurse	Nurse Practitioner	
			Radiographer	Nutritionist	Physician	
			Lab Technician	Nurse Supervisor	Nurse Director	
			Dietetic Technician			

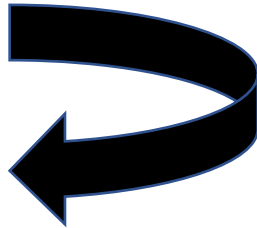
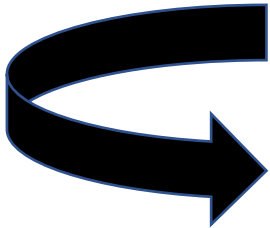


Industry  
Certifications

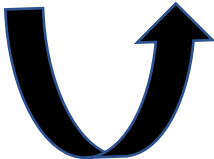


Technical  
Skills  
Assessments

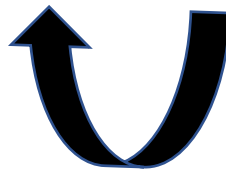
College Dual  
Credit &  
Articulation



Internships



Curriculum  
Competencies





## *Articulation*

## *Dual Credit*

## *Advanced*





# HTHS Student Body



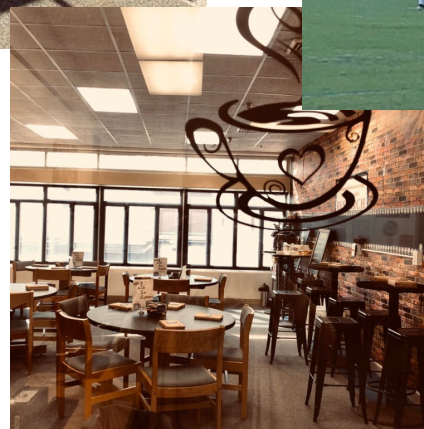
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Sports Teams



26

Clubs &  
Organizations



**SCHOOL CULTURE**

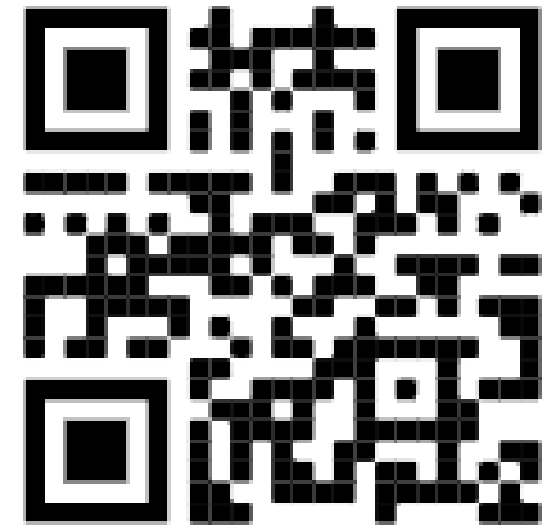


**INSTRUCTIONAL PRACTICES**

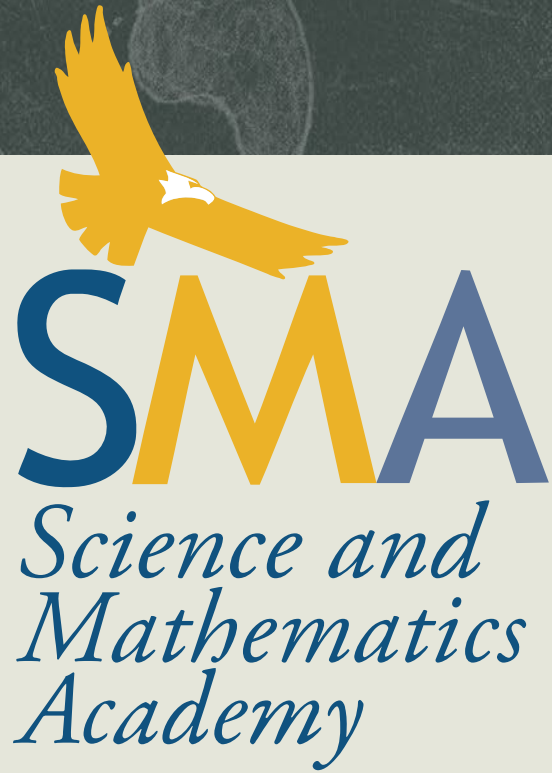




# November 3rd



<https://hths.ss18.sharpschool.com/>



**Advancing Education ·  
Enhancing Futures**

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.



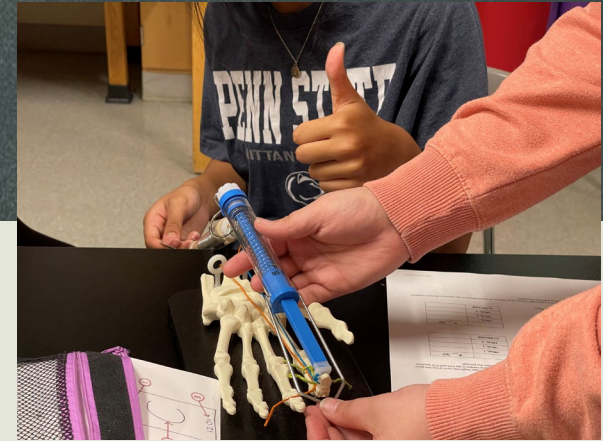
# SMA Student Body

- 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 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

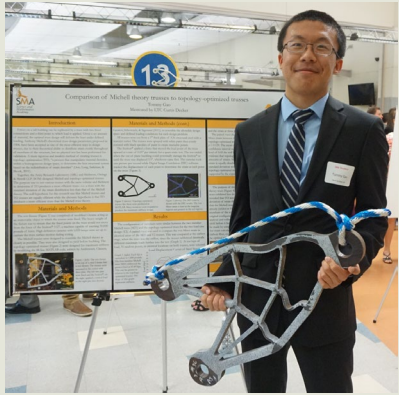


# What makes the SMA unique?

- 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

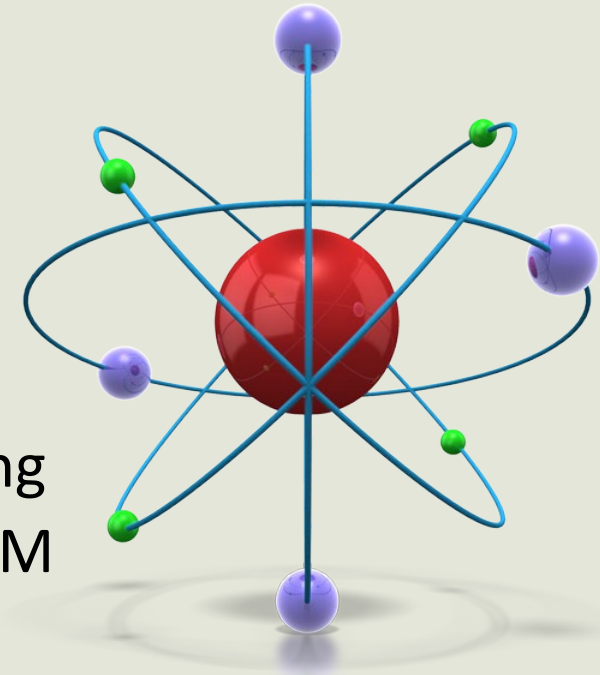


# Special Classes (11<sup>th</sup> and 12<sup>th</sup> grade semester electives)



- 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)

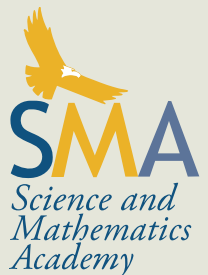
- 4-year sequenced series of courses
  - 9<sup>th</sup> grade: semester (1/2 credit)
  - 10<sup>th</sup> grade: full year (1 credit)
  - 11<sup>th</sup> grade: full year (1 credit)
  - 12<sup>th</sup> grade: double block (2 credits)
- STEM curriculum
- Project-based
- Design experiments and analyze data



9th	10 <sup>th</sup>
<p><b>Honors Algebra 2</b>  <b>AP Environmental Science</b>  <b>Honors Biology</b>  <b>SRT 1/Health</b></p> <p>Honors English 9  Honors Government  Band/Chorus/Orchestra/Art  Foreign Language</p>	<p><b>Trigonometry</b>  <b>AP Statistics</b>  <b>Honors Chemistry</b>  <b>SRT 2</b></p> <p>Honors English 10  World History (AP or standard)  Band/Chorus/Orchestra/Art/Elec.  Foreign Language</p>
11th	12th
<p><b>AP Calculus AB</b>  <b>AP Physics: Mechanics</b>  <b>SRT 3</b>  <b>SMA Semester Electives</b></p> <p>English 11 (AP or standard)  US History (AP or standard)  Band/Chorus/Orchestra/Art/Elec.  Foreign Language/Elec.</p>	<p><b>AP Mathematics</b>  <b>AP Science</b>  <b>SRT 4 (2 credits)</b>  <b>SMA Semester Electives</b></p> <p>English 12 (AP or standard)  Band/Chorus/Orchestra/Art/Elec.  Foreign Language/Elec.</p>

All **SMA classes (bold)** are taught by one of the 8 SMA dedicated faculty members and are located in the SMA (3<sup>rd</sup> 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 a 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 of learning outcomes for the 21<sup>st</sup> 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<sup>th</sup> and 10<sup>th</sup> Grade IB PREP

11<sup>th</sup> and 12<sup>th</sup> 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 student
- Students leave with the ability to handle any-type of research for future college or careers.

# DP IB Courses Offered . . .

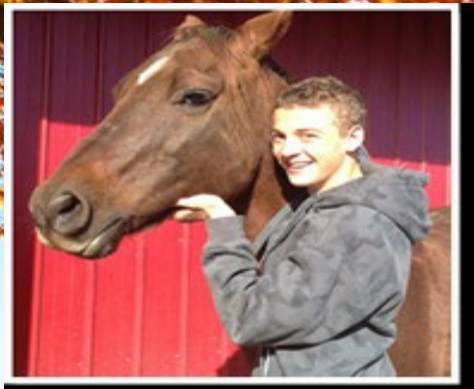


- English Literature HL
- French SL
- Spanish SL
- History of the Americas HL
- Geography SL/HL
- Biology HL
- Chemistry HL
- Math Applications SL
- Math Analysis SL
- Visual Arts HL/ SL
- Music HL/ SL
- Film SL
- Theatre SL
- Psychology SL
- Sports, Exercise and Health SL
- Physics SL
- World Religions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

- Animal Management and Vet Asst.
- Comparative Anatomy & Physiology Companion Animals



## Plant Sciences

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

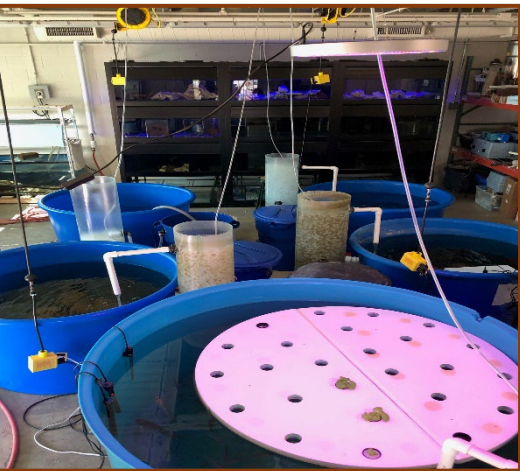


## Natural Resources Science

- 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 be scheduled beginning sophomore year if you have interest in multiple strands.**

**Q. Are all classes taken with only Magnet students?**

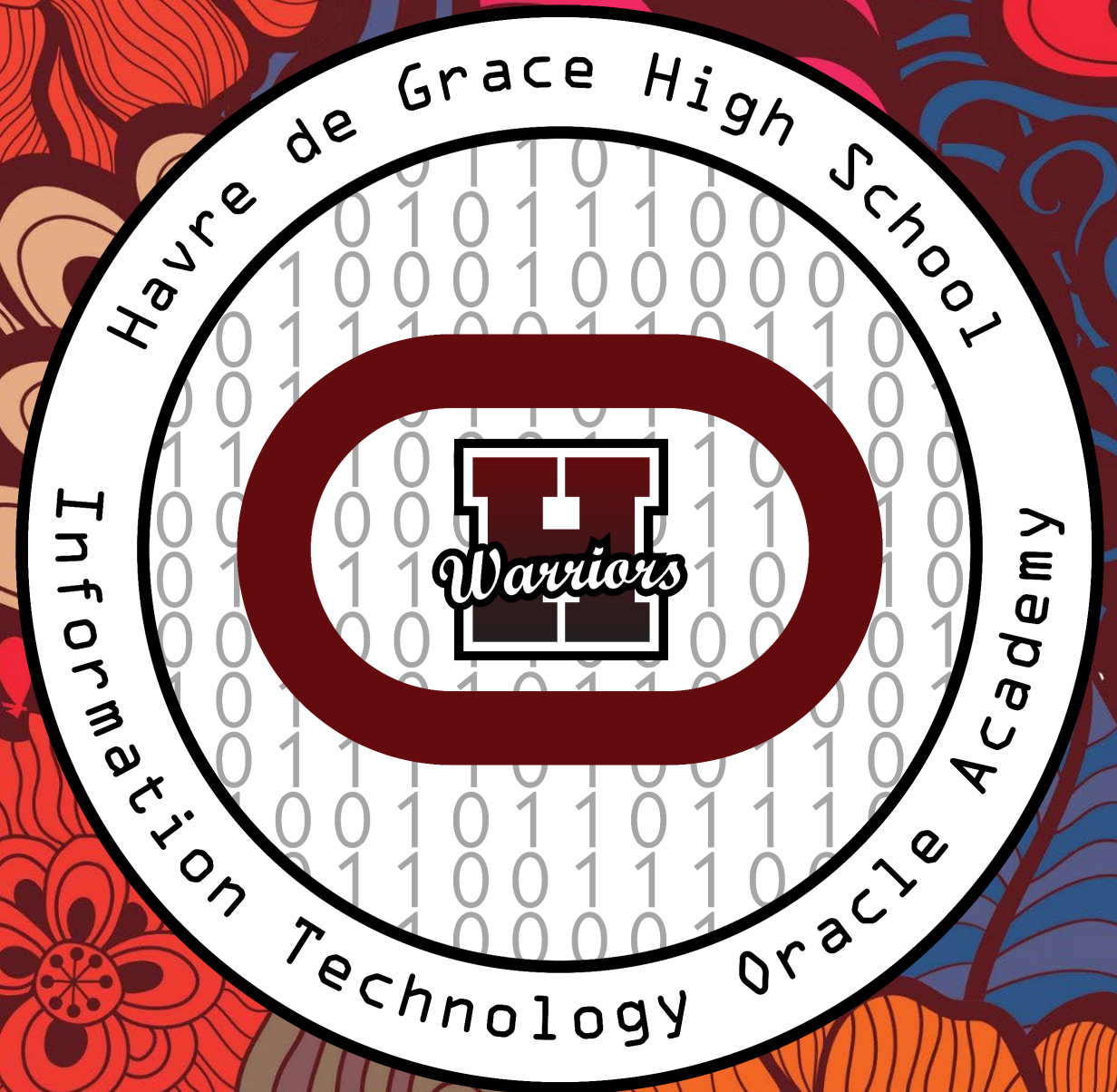
**A. You will take the NRAS class with other Magnet students, All other classes you are integrated with North Harford Students**

**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.**



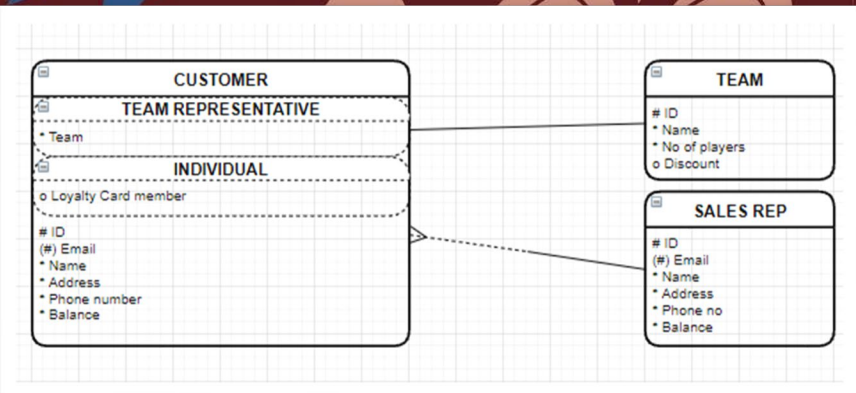
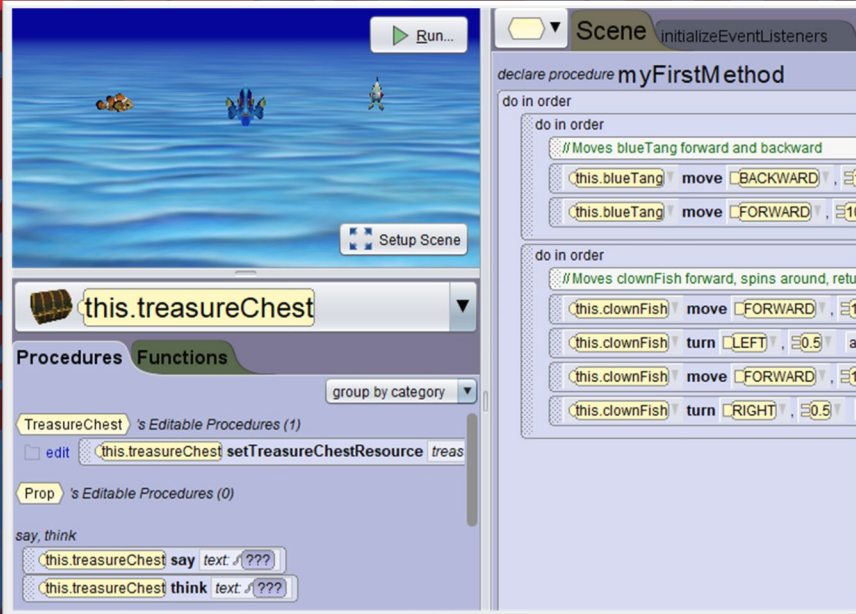
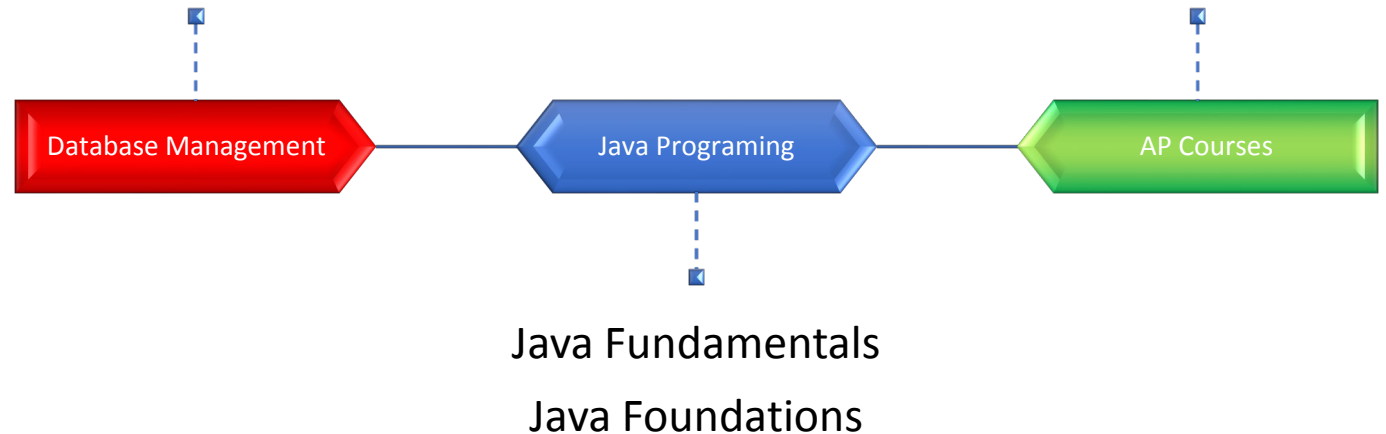
Mr. Robert Scott  
Program Coordinator  
[robert.scott@hcps.org](mailto:robert.scott@hcps.org)



# Oracle Academy Curriculum Overview

Database Foundations  
Database Design

Computer Science  
Principles  
Computer Science A



Internships  
or  
Courses at  
HCC

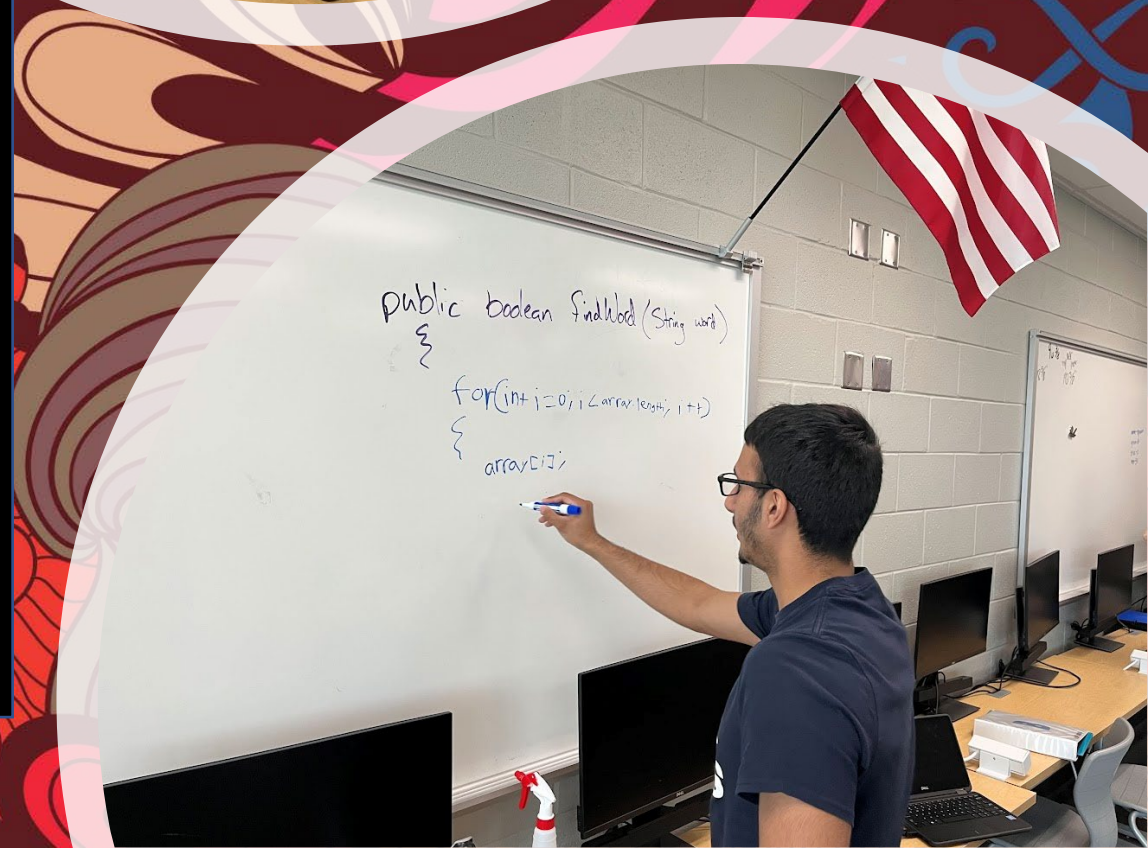
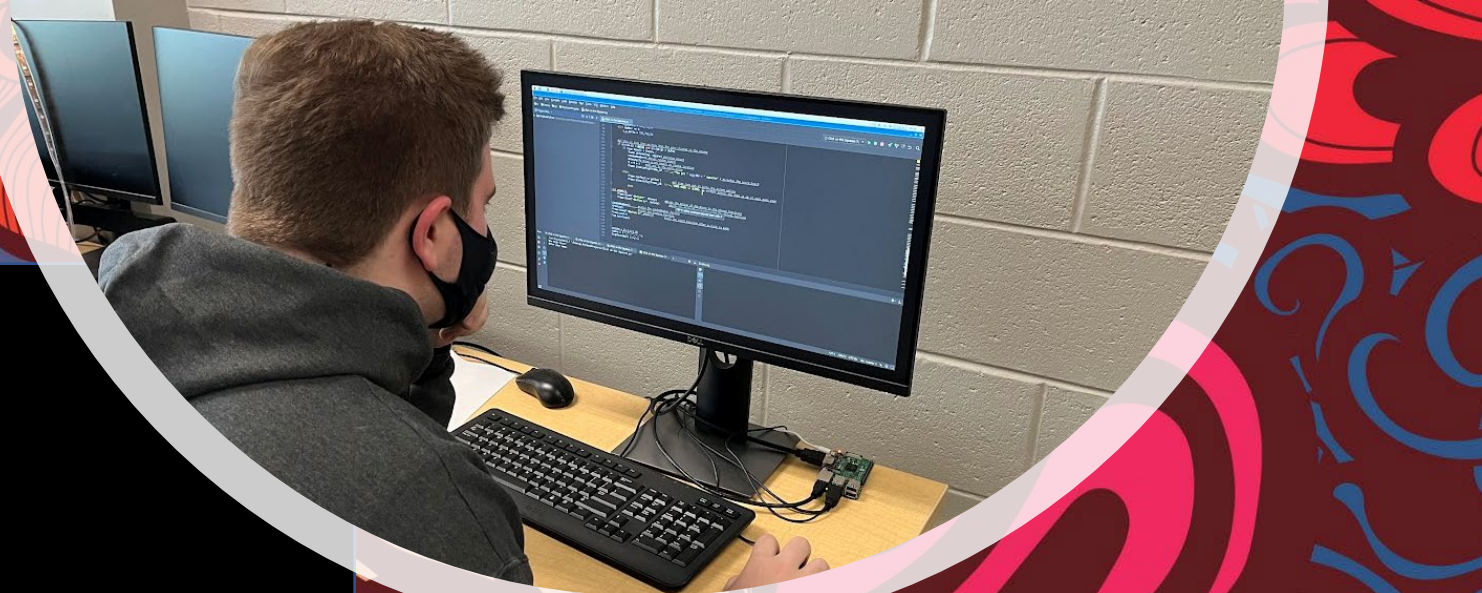


**HARFORD**  
COMMUNITY COLLEGE

# 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.

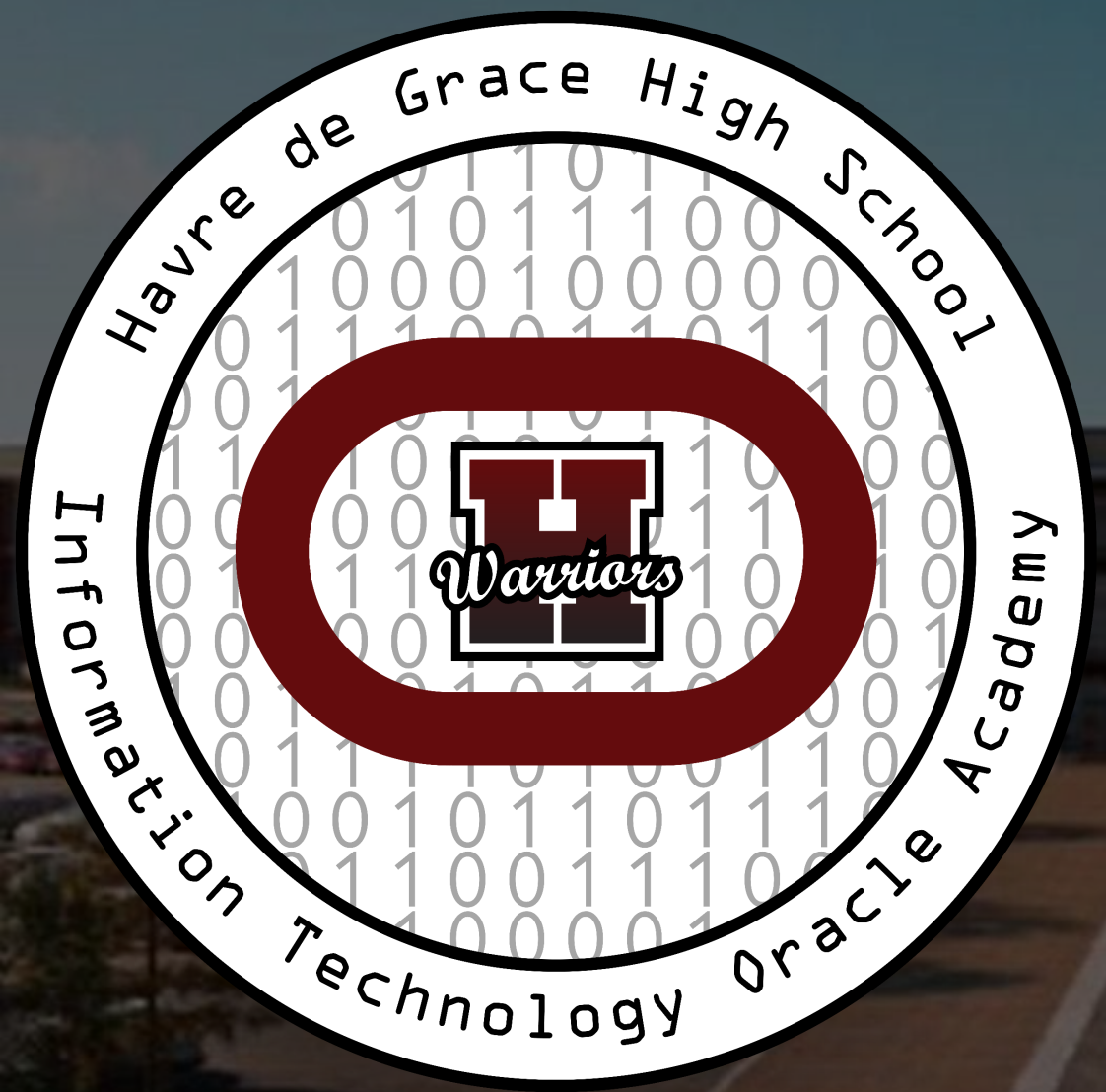




# What we look for in students

- 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 18<sup>th</sup> 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

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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 10<sup>th</sup> 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

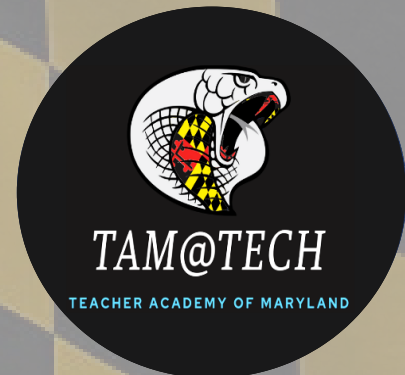
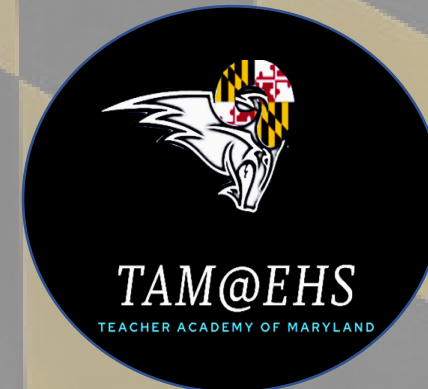
**A State Approved Career and Technology Education Program  
and Career Pathway**

# 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**

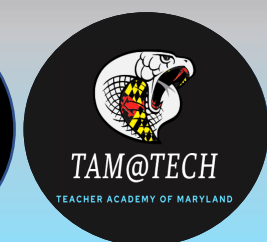
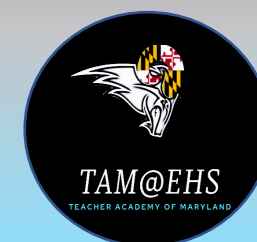
**School  
Psychologist**

**JV /Varsity  
Athletic  
Coach**

**Reading  
Specialist**

**Speech  
Therapist**

**TAM**  
TEACHER ACADEMY  
OF MARYLAND



# 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.



Open House  
Dates  
6:30 to 8:00  
PM

- These can also be found in your booklet and on [www.hcps.org](http://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





# HCPS COVID-19 RESOURCES

- CALENDAR
- HOME ACCESS CENTER
- SCHOOL/BUS LOCATOR
- TECHNOLOGY RESOURCES
- MENUS
- PAYMENT OPTIONS
- PARENT PORTAL
- OFFICE 365
- EMPLOYMENT OPPORTUNITIES

- ABOUT US
- PARENTS
- STUDENTS
- STAFF
- COMMUNITY
- BOARD OF EDUCATION
- SUPERINTENDENT



<http://www.hcps.org/Schools/MagnetPrograms>

## Harford County Public Schools Magnet and Technical Programs

### Our Schools

- Before and After Care
- Boundary Exceptions
- Enrollment
- Feeder School Information
- Food and Nutrition
- Harford Glen
- Home Access Center (HAC)
- MD Report Card
- Register for School

**i** 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)