

# The Academies at Huntingtown High School



Huntingtown High School  
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# **Academies Offered at Huntingtown High School**

**H** Arts, Communications, and Global Studies Academy

**H** Business, Management, and Finance Academy

**H** Career Plus Academy

**H** Science, Technology, Engineering, and Mathematics (STEM) Academy

**H** Teacher Academy of Maryland (TAM)

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# The Academies at Huntingtown High School

## **Philosophy**

Huntingtown High School (HHS) has developed an Academies model organized around students' motivated strengths that engages learners in a program of study that challenges them to participate in rigorous instructional pathways through meaningful learning experiences. The HHS academies model is a value-added program designed to guide students towards courses they will find engaging and challenging based on their personal interests. Students may participate in any of the HHS academies or choose interdisciplinary studies. Additionally, students may move from one academy to another if they choose to do so. The overarching goal of the HHS Academies model is to provide students with learning opportunities that are meaningful and exciting.

## **Goals of the Huntingtown High School Academies:**

- Identify areas of interest and then explore these areas of interest more broadly, so that they can determine if they have really found what they want to study in college or do for a living.
- Find school more engaging and rewarding by taking part in the opportunities offered by their academy (i.e. guest speakers, field trips, internships, mentor-mentee relationships, Academy clubs and organizations, and a selection of courses they may not have otherwise considered).
- Engage in increased rigor by providing significant learner engagement in a field of interest. Students will elect to participate in courses of their choosing for a full four years and choose to work harder because they are highly engaged in what they are learning.

# Frequently Asked Questions

- What is the purpose of the academies?
  - The mission is to be a value-added program to enhance the high school experience by providing unique electives and events that allow students to explore their career interests. Students will explore various class choices to make a connection between the different content areas.
- Why enroll in an academy?
  - Academy scholars will have opportunities for guest speakers, field trips, internships, and other experiences tailored to their interests. Students continue to receive rigorous academic instruction and are taught how their core classes and electives can be relevant in the real world.
- How is this different from the existing pathways?
  - The existing pathways will still be in place with PLTW Biomedical, PLTW Engineering, and NJROTC courses available starting their 9<sup>th</sup> grade year. All other pathways begin in 10<sup>th</sup> or 11<sup>th</sup> grade. Choosing an academy allows students to complete the existing pathways PLUS benefit from the enrichment opportunities and class explorations that the academies have to offer.
- When do I enroll in an academy?
  - During the registration process for 10<sup>th</sup> grade, parents and students can choose the Academy that would best support the student's goals and interests, fully recognizing that there are young people whose interests may change over the course of their high school career. It may be possible in some cases to complete an academy when beginning in 11<sup>th</sup> grade.
- Do I have to enroll in an academy?
  - No, students are not required to choose an academy. The academies are just one of the many ways a student can maximize and enrich their learning experiences during their four years at Huntingtown High School.
- What do I receive for completing an academy?
  - A student will receive a letter of recommendation from the academy lead teacher, a certificate of completion, and a cord at graduation.
- Can I change academies or withdraw?
  - Yes. During registration for the upcoming school year students have the opportunity to submit an academy change form. They will work with the academy lead teacher and their counselor to ensure appropriate placement and choice of electives. Students can also withdraw from the academy program if their interests have changed.
- How are the academies structured?
  - Each academy has an academy lead teacher. The role of the lead teacher is to coordinate experiences and mentor students in the academy. The overall academy program is administered by an academy coordinator.
- What is required to complete an academy?
  - See the catalogue for details on which courses are required for each academy.
- Where can I get more information?
  - For specific questions or comments, contact the academy coordinator or lead teachers.

# ARTS, COMMUNICATIONS AND GLOBAL STUDIES ACADEMY

**Mission:** The mission of this academy is to instill in our students the importance of responsible and sensitive global citizenship. This academy seeks to enlighten students about the world, encourage community involvement, and foster critical and creative thinking; as well as effective communication through written and verbal expression in their professional and personal lives.

**Potential Careers:**

- |  |   |  |
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| <ul style="list-style-type: none"> <li>▪ Linguist</li> <li>▪ Travel Agent</li> <li>▪ Museum Studies</li> <li>▪ Writer/Author</li> <li>▪ Journalist</li> <li>▪ Actor</li> <li>▪ Anthropologist</li> <li>▪ Attorney</li> </ul> | <ul style="list-style-type: none"> <li>▪ Law Enforcement Officer</li> <li>▪ Archeologists</li> <li>▪ International Relations</li> <li>▪ Teacher</li> <li>▪ Technical Writer</li> <li>▪ Museum Curator</li> <li>▪ Public Relations</li> <li>▪ Human Resources</li> </ul> | <ul style="list-style-type: none"> <li>▪ Communications Director</li> <li>▪ Analyst</li> <li>▪ Producer</li> <li>▪ Graphic Artist</li> <li>▪ Photographer</li> <li>▪ Artist</li> <li>▪ Musician</li> </ul> |
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**Requirements:** To become an Academy Scholar, students must complete the credit requirements from the course concentration list below. (**½ credit courses must be paired with another ½ credit course to create a full year of study**)

Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
<b>Communications</b>	<ul style="list-style-type: none"> <li>❖ Journalism I</li> <li>❖ Journalism II (Broadcasting or Newspaper, or Yearbook)</li> </ul> <p style="margin-left: 20px;">Plus 2 courses from the list below:</p> <ul style="list-style-type: none"> <li>❖ Journalism II: (different course from one above)</li> <li>❖ Journalism III: (Advanced Broadcasting or Advanced Newspaper or Advanced Yearbook)</li> <li>❖ Introduction to Film</li> <li>❖ World Languages above level II</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Creative Writing (1/2 credit)</li> <li>❖ Psychology (AP or Academic)</li> </ul>	<ul style="list-style-type: none"> <li>❖ Theatre/Acting</li> <li>❖ Sociology</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Foundations of Computer Science</li> <li>❖ Fine or Performing Arts</li> <li>❖ Creative Writing (1/2 credit)</li> <li>❖ Keyboarding for College &amp; Careers (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Physical Education (1/2 credit)</li> </ul>

Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
<b>Criminal Justice/Law Enforcement Pathway</b>	<ul style="list-style-type: none"> <li>❖ American Criminal Justice System</li> <li>❖ Juvenile Justice</li> <li>❖ Criminal Law</li> <li>❖ Criminal Investigation (2 credits)</li> </ul>	<ul style="list-style-type: none"> <li>❖ Psychology (AP or Academic)</li> <li>❖ Principles of Accounting</li> <li>❖ AP Computer Science</li> <li>❖ Photography</li> <li>❖ World Languages</li> <li>❖ Fine or Performing Arts</li> <li>❖ Foundations of Computer Science</li> </ul>
<b>Social Sciences</b>	<ul style="list-style-type: none"> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Women’s History, Cultural Anthropology, <b><u>OR</u></b> African American Studies (1/2 credit)</li> </ul> <p>Plus 3 courses from the list below:</p> <ul style="list-style-type: none"> <li>❖ AP European History</li> <li>❖ AP Human Geography</li> <li>❖ ICONS Global Studies</li> <li>❖ Sociology</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Journalism I</li> <li>❖ Archaeology (1/2 credit)</li> <li>❖ Women’s History (1/2 credit)</li> <li>❖ African American Studies (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> </ul>	<ul style="list-style-type: none"> <li>❖ Economics</li> <li>❖ AP Microeconomics</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ World Languages</li> <li>❖ Cultures and Cuisines</li> <li>❖ Fine or Performing Arts</li> </ul>
<b>World Cultures</b>	<ul style="list-style-type: none"> <li>❖ World Language III</li> <li>❖ World Language IV</li> </ul> <p>Plus 2 courses from the list below:</p> <ul style="list-style-type: none"> <li>❖ Cultures and Cuisine</li> <li>❖ ICONS Global Studies</li> <li>❖ Advanced World Language</li> <li>❖ AP World Language</li> <li>❖ AP Human Geography</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> <li>❖ Archeology (1/2 credit)</li> </ul>	<ul style="list-style-type: none"> <li>❖ Sociology</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Fine or Performing Arts</li> <li>❖ African American Studies (1/2 credit)</li> <li>❖ Women’s History (1/2 credit)</li> </ul>

<b>Concentrations</b>	<b>In addition to the graduation requirements, the following are required courses for this academy:</b>	<b>Choose 1 or more credits from the following:</b> <i>*These credits must be above a graduation requirement.</i>
<b>The Arts</b>	<p><b>Performing Arts</b></p> <ul style="list-style-type: none"> <li>❖ Theatre I</li> </ul> <p>Plus 3 courses from the list below:</p> <ul style="list-style-type: none"> <li>❖ Theatre II</li> <li>❖ Advanced Acting I</li> <li>❖ Advanced Acting II</li> <li>❖ Advanced Acting III</li> <li>❖ Stagecraft</li> </ul> <p><b>Fine Arts - Vocal</b></p> <ul style="list-style-type: none"> <li>❖ Choral or Chorus</li> </ul> <p>Plus 3 courses from the list below:</p> <ul style="list-style-type: none"> <li>❖ Music Theory</li> <li>❖ Chamber Chorus</li> <li>❖ Music Theatre</li> <li>❖ Concert Chorus</li> <li>❖ Music Appreciation (online)</li> </ul> <p><b>Fine Arts - Instrumental</b></p> <ul style="list-style-type: none"> <li>❖ Concert Band, Symphonic Band, or String Orchestra</li> </ul> <p>Plus 3 courses from the list below:</p> <ul style="list-style-type: none"> <li>❖ Wind Ensemble</li> <li>❖ Jazz Ensemble</li> <li>❖ Advanced Orchestra</li> <li>❖ Brass Ensembles: Duets, Trios, Quartets and Quintets</li> <li>❖ Percussion Ensembles: Duets, Trios, Quartets and Quintets</li> <li>❖ Symphony Orchestra</li> </ul>	<ul style="list-style-type: none"> <li>❖ Psychology (AP or Academic)</li> <li>❖ Principles of Business Management</li> <li>❖ World Languages</li> <li>❖ ICONS Global Studies</li> <li>❖ AP European History</li> <li>❖ Introduction to Engineering Design</li> <li>❖ Principles of Engineering</li> <li>❖ Stagecraft</li> <li>❖ Foundations of Computer Science</li> <li>❖ Journalism I</li> <li>❖ Sociology</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Physical Education (1/2 credit)</li> <li>❖ Computer Keyboarding for College and Careers (1/2 credit)</li> <li>❖ Creative Writing (1/2 credit)</li> </ul>



Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
	<p><b>Fine Arts – Visual</b> Choose 4 courses from the following:</p> <ul style="list-style-type: none"> <li>❖ Art and Design</li> <li>❖ Drawing and Painting</li> <li>❖ Advanced Drawing and Painting</li> <li>❖ Sculpture I</li> <li>❖ Sculpture II</li> <li>❖ Ceramics I</li> <li>❖ Ceramics II</li> <li>❖ Photography Black and White &amp; Digital</li> <li>❖ Advanced Photography Black and White and Digital</li> <li>❖ Studio Art</li> <li>❖ AP Studio - Drawing</li> <li>❖ AP Studio - Two-Dimensional Design</li> <li>❖ AP Studio - Three-Dimensional Design</li> </ul> <p><b>Exploring the Arts</b> Any 4 courses from <b>The Arts</b> Concentration</p>	<ul style="list-style-type: none"> <li>❖ Psychology (AP or Academic)</li> <li>❖ Principles of Business Management</li> <li>❖ World Languages</li> <li>❖ ICONS Global Studies</li> <li>❖ AP European History</li> <li>❖ Introduction to Engineering Design</li> <li>❖ Principles of Engineering</li> <li>❖ Stagecraft</li> <li>❖ Foundations of Computer Science</li> <li>❖ Journalism I</li> <li>❖ Sociology</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Physical Education (1/2 credit)</li> <li>❖ Computer Keyboarding for College and Careers (1/2 credit)</li> <li>❖ Creative Writing (1/2 credit)</li> </ul>

### Internships (Internal/External)

- Jefferson Patterson Park
- Education
- MAC Lab
- Calvert County Historical Society
- Historic St. Mary's City
- CSM

### Clubs and Organizations:

- Key Club
- Rho Kappa
- Archeology Club
- Young Democrats
- FBLA
- Eye of the Storm
- Class Council
- Student Government
- TIE Tutor
- Marching Band
- Tri-M Music Society
- Thespian Society
- World Languages Honors Society
- Art National Honor Society
- Approved writing and poetry competition
- Voluntary History Fair with teacher mentorship
- Teen Age Republicans


# BUSINESS, MANAGEMENT, AND FINANCE ACADEMY

**Mission:** The mission of the Huntingtown High School Business Management, Accounting, Finance, and Business Administrative Services pathways are to prepare students with the necessary skills and knowledge to succeed in post-secondary education and/or employment using relevant and challenging curriculum and project-based assignments. Academy completers will develop critical thinking skills that will enable them to utilize the information acquired in the academy to be successful beyond high school in both their personal and professional lives.

## Potential Careers:

- Financial Planner
- Entrepreneur
- Realtor
- Corporate Executive
- Business Manager
- Accountant
- Bookkeeper
- Office Assistant
- Forensic Accountant
- Administrative Assistant
- Marketing
- Stock Broker
- Sports Management
- Market Analyst
- Small Business Owner
- Sports/Entertainment Agent
- Supply Chain Analysis
- Wealth Management
- Insurance Agent
- Human Resource Director

**Requirements:** To become an Academy Scholar, students must complete the credit requirements for at least one pathway listed below. (**½ credit courses must be paired with another ½ credit course to create a full year of study**)

Pathway	In addition to the graduation requirements, the following are required courses for this pathway:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
<b>Business Administrative Services</b>	<ul style="list-style-type: none"> <li>❖ Principles of Business Administration and Management</li> <li>❖ Principles of Accounting</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Office Systems Management (Excel/Access)</li> </ul> <p>Certification tests offered in Word, PowerPoint, Excel, and Access through Certiport at HHS</p> <div style="text-align: center;">  </div>	<ul style="list-style-type: none"> <li>❖ Advanced Accounting</li> <li>❖ Advanced Business Management</li> <li>❖ Economics</li> <li>❖ AP Microeconomics</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Statistics (AP or Academic)</li> <li>❖ Foundations of Computer Science</li> <li>❖ App Development</li> <li>❖ World Languages</li> <li>❖ Theatre/Acting</li> <li>❖ Photography</li> <li>❖ Drawing &amp; Painting</li> <li>❖ Journalism I</li> </ul>

<b>Pathway</b>	<b>In addition to the graduation requirements, the following are required courses for this academy:</b>	<b>Choose 1 or more credits from the following:</b> <i>*These credits must be above a graduation requirement.</i>
<b>Accounting</b>	<ul style="list-style-type: none"> <li>❖ Principles of Business Administration and Management</li> <li>❖ Principles of Accounting</li> <li>❖ Advanced Accounting</li> </ul> <p>And one of the following:</p> <ul style="list-style-type: none"> <li>❖ Business Capstone – Management</li> <li>❖ AP Microeconomics</li> <li>❖ Dual Enrollment course at CSM: <ul style="list-style-type: none"> <li>BAD 1210 Principles of Management</li> <li>BAD 1335 Applied Business Communications</li> <li>BAD 2070 Business Law I</li> <li>ECN 1015 Introduction to Business in a Market Economy</li> <li>ENG 2050 Business and Technical Writing</li> <li>ITS 1015 The Information Age: Emerging Technologies</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Advanced Business Management</li> <li>❖ Economics</li> <li>❖ AP Microeconomics</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Statistics (AP or Academic)</li> <li>❖ AP Calculus</li> <li>❖ World Languages</li> <li>❖ Theatre/Acting</li> <li>❖ Computer Keyboarding for College &amp; Careers (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> </ul>

<b>Pathway</b>	<b>In addition to the graduation requirements, the following are required courses for this academy:</b>	<b>Choose 1 or more credits from the following:</b> <i>*These credits must be above a graduation requirement.</i>
<b>Business Management</b>	<ul style="list-style-type: none"> <li>❖ Principles of Business Administration and Management</li> <li>❖ Principles of Accounting</li> <li>❖ Advanced Business Management</li> </ul> <p>And one of the following:</p> <ul style="list-style-type: none"> <li>❖ Business Capstone – Management</li> <li>❖ AP Microeconomics</li> <li>❖ Dual Enrollment course at CSM: <ul style="list-style-type: none"> <li>BAD 1210 Principles of Management</li> <li>BAD 1335 Applied Business Communications</li> <li>BAD 2070 Business Law I</li> <li>ECN 1015 Introduction to Business in a Market Economy</li> <li>ENG 2050 Business and Technical Writing</li> <li>ITS 1015 The Information Age: Emerging Technologies</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Economics</li> <li>❖ AP Microeconomics</li> <li>❖ Advanced Accounting</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Statistics (AP or Academic)</li> <li>❖ World Languages</li> <li>❖ Theatre/Acting</li> <li>❖ Computer Keyboarding for College &amp; Careers (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Athletic Training (1/2 credit)</li> </ul>

Pathway	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
<b>Academy of Finance</b>	<ul style="list-style-type: none"> <li>❖ Principles of Business Administration and Management</li> <li>❖ Principles of Accounting</li> <li>❖ Principles of Finance/Financial Planning</li> <li>❖ AP Microeconomics</li> <li>❖ Internship Required</li> </ul> <p>NAFTrack Certification offered through the National Academy Foundation at HHS</p> <div style="text-align: center;">  </div>	<ul style="list-style-type: none"> <li>❖ Advanced Accounting</li> <li>❖ Advanced Business Management</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Statistics (AP or Academic)</li> <li>❖ AP Calculus</li> <li>❖ World Languages</li> <li>❖ Theatre/Acting</li> <li>❖ Keyboarding for College and Careers (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 Credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> </ul>

**Clubs and Organizations:**

- Future Business Leaders of American (FBLA)
- National Business Honor Society (NBHS)
- Millionaires Club
- Stock Market Club

# CAREER PLUS ACADEMY

**Mission:** The mission of the Huntingtown High School Career Plus Academy is to prepare students with the necessary skills and knowledge to merge their technical experiences with a course of study that will prepare them to be an effective leader in their chosen field of employment. In addition to their learning experiences, academy completers will acquire a knowledge of business practices and develop writing, speaking and listening skills. These skills will enable the students to utilize the information acquired in the academy to be successful beyond high school in both their personal and professional lives.

**Potential Careers:**

- Entrepreneur
- Small Business Owner
- Nurse
- Medical Assistant
- Physician’s Assistant
- Automotive Service Technician
- Carpenter
- Computer Programmer
- Computer Software Engineer
- Construction Design and Manager
- Chef
- Restaurant Manager/Owner
- Fire Fighter
- Emergency Medical Technician
- Graphic Artist
- HVAC Technician
- Plumber
- Welder
- Military Careers

**NJROTC- Naval Junior Reserves Officers’ Training Corps**

**Requirements for NJROTC:** To become a Career Plus Scholar, students of this program must complete the required Naval Science courses A. Due to the rigorous nature of the program and required extracurricular activities, no additional courses are required.

Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 3 or more activities from the following:
<b>Naval Science</b>	<ul style="list-style-type: none"> <li>❖ Naval Science I</li> <li>❖ Naval Science II</li> <li>❖ Naval Science III</li> <li>❖ Naval Science IV</li> </ul>	<p>Teams</p> <ul style="list-style-type: none"> <li>❖ Athletics</li> <li>❖ Academics</li> <li>❖ Drill</li> <li>❖ Orienteering</li> <li>❖ Color Guard</li> <li>❖ Scuba</li> <li>❖ Cyber Patriot</li> <li>❖ Air Rifle</li> </ul> <p>Jobs</p> <ul style="list-style-type: none"> <li>❖ Administration</li> <li>❖ Supply</li> <li>❖ Operations</li> </ul>

**Requirements for CTA:** To become an Academy Scholar, students must complete the credit requirements for at least one pathway listed below. (**½ credit courses must be paired with another ½ credit course to create a full year of study**)

<b>Pathway</b>	<b>In addition to the graduation requirements, the following are required courses for this pathway:</b>	<b>Choose 1 or more credits from the following:</b> <i>*These credits must be above a graduation requirement.</i>
<b>Academy of Health Professions</b>	Academy of Health Professions I Academy of Health Professions II Track A OR Academy of Health Professions II Track B	<ul style="list-style-type: none"> <li>❖ Principles of Business Administration and Management</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Principles of Accounting</li> <li>❖ Economics</li> <li>❖ AP Microeconomics</li> <li>❖ World Languages</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Computer Keyboarding for College (1/2 credit)</li> </ul>
<b>Auto Mechanics – Service Tech.</b>	Service Technician I Service Technician II	
<b>Carpentry</b>	Carpentry I Carpentry II	
<b>CISCO Networking Academy</b>	PC Troubleshooting and Introduction to Network Engineering Advanced Network Engineering Cyber Security and Network Engineering	
<b>Construction Design and Management CDM)</b>	Construction Design and Management I Construction Design and Management II	
<b>Cosmetology</b>	Cosmetology I Cosmetology II	
<b>Culinary Arts</b>	Food Production and Management I Food Production and Management II	
<b>Electricity</b>	Electricity I Electricity II	
<b>Firefighter/Emergency Medical Tech</b>	Fire and Rescue I Fire and Rescue II	
<b>Graphic Arts</b>	Graphic Arts I Graphic Arts II	
<b>Heating, Ventilation, and Air Conditioning</b>	Heating, Ventilation, and Air Conditioning I Heating, Ventilation, and Air Conditioning II	
<b>Home Improvement</b>	Home Improvement I Home Improvement II	
<b>Masonry</b>	Masonry I Masonry II	
<b>Plumbing</b>	Plumbing I Plumbing II	
<b>Welding</b>	Welding I Welding II	

# SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) ACADEMY

**Mission:** This academy is to provide a rich exploration of career pathways involving math, science, engineering, computer science, exercise science, and the biomedical sciences. STEM academy students will develop the skills needed to pursue higher education opportunities and employment in STEM careers. Additionally, academy students will be given the opportunity to engage in hands-on exploration of scientific practices and/or practical and theoretical application of mathematical fields of study.

**Potential Careers:**

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| <ul style="list-style-type: none"> <li>▪ Agriculture</li> <li>▪ Athletic Trainer</li> <li>▪ Biochemist</li> <li>▪ Computer Analyst</li> <li>▪ Data Analyst</li> <li>▪ Doctor</li> <li>▪ Environmental Engineer</li> <li>▪ Fitness Trainer</li> <li>▪ Forensic Science Technician</li> <li>▪ Healthcare Professional</li> <li>▪ I.T. Specialist</li> </ul> | <ul style="list-style-type: none"> <li>▪ Medical Technician</li> <li>▪ Meteorologist</li> <li>▪ Physicist</li> <li>▪ Physical Therapist</li> <li>▪ Research Scientist</li> <li>▪ Recreational Therapist</li> <li>▪ Science/Math Educator</li> <li>▪ Statistician</li> <li>▪ Software Engineer</li> <li>▪ Veterinary Science</li> </ul> |
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**Requirements:** To become an Academy Scholar, students must complete the credit requirements from the course concentration lists below. (**½ credit courses must be paired with another ½ credit course to create a full year of study**)

Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
<b>Computer Science</b>	<ul style="list-style-type: none"> <li>❖ Foundations of Computer Science</li> <li>❖ AP Computer Science Principles</li> <li>❖ App Development</li> <li>❖ AP Computer Science A - Coding</li>   <li>❖ An additional STEM credit in one of the following:               <ul style="list-style-type: none"> <li>▪ Principles of Engineering</li> <li>▪ a 4<sup>th</sup> course of science</li> <li>▪ a 5<sup>th</sup> course of math</li> <li>▪ Economics or AP Microeconomics</li> <li>▪ Principles of Biomedical Science</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Principles of Business Administration</li> <li>❖ World Languages above level II</li> <li>❖ Fine or Performing Arts</li> <li>❖ AP Human Geography</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> </ul>



<b>Concentrations</b>	<b>In addition to the graduation requirements, the following are required courses for this academy:</b>	<b>Choose 1 or more credits from the following:</b> <i>*These credits must be above a graduation requirement.</i>
<b>Math</b>	<ul style="list-style-type: none"> <li>❖ 3 math classes beyond Algebra I, Geometry, and Algebra II</li> <li>❖ An additional STEM credit in one of the following: <ul style="list-style-type: none"> <li>▪ Principles of Engineering</li> <li>▪ Foundations of Computer Science</li> <li>▪ Principles of Accounting</li> <li>▪ Economics or AP Microeconomics</li> <li>▪ Principles of Biomedical Science</li> <li>▪ Introduction to Engineering Design</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ World Languages above level II</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Principles of Business Administration &amp; Management</li> <li>❖ AP Human Geography</li> <li>❖ Fine or Performing Arts</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Computer Keyboarding for College &amp; Careers (1/2 credit)</li> </ul>
<b>PLTW Biomedical Science</b>	<ul style="list-style-type: none"> <li>❖ Principles of Biomedical Science</li> <li>❖ Human Body Systems</li> <li>❖ Medical Interventions</li> <li>❖ Biomedical Innovation</li> <li>❖ 4 courses of Science</li> </ul>	<ul style="list-style-type: none"> <li>❖ Psychology (AP or Academic)</li> <li>❖ AP Human Geography</li> <li>❖ Human Growth and Development</li> <li>❖ World Languages above level II</li> <li>❖ Nutrition Technology</li> <li>❖ Introduction to Engineering</li> <li>❖ Principles of Business Administration &amp; Management</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Office Systems Management (Word/PowerPoint)</li> <li>❖ Fine or Performing Arts</li> <li>❖ Athletic Training I (1/2 credit)</li> <li>❖ Athletic Training II (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Computer Keyboarding for College &amp; Careers (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> </ul>

Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
<b>PLTW Engineering</b>	<ul style="list-style-type: none"> <li>❖ Introduction to Engineering Design</li> <li>❖ Principles of Engineering</li> <li>❖ Engineering Design and Development</li>   <li>❖ 2 or more credits from the following:               <ul style="list-style-type: none"> <li>▪ Digital Electronics</li> <li>▪ Aerospace Engineering</li> <li>▪ Civil Engineering &amp; Architecture</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ World Languages above level II</li> <li>❖ Foundation of Computer Science</li> <li>❖ Principles of Biomedical Science</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ AP Human Geography</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Principles of Business Administration &amp; Management</li> <li>❖ Fine or Performing Arts</li> <li>❖ Stagecraft</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> </ul>
<b>Sciences</b>	<ul style="list-style-type: none"> <li>❖ 4 years of science</li>   <li>❖ An additional STEM credit in one of the following:               <ul style="list-style-type: none"> <li>▪ Principles of Engineering</li> <li>▪ Foundations of Computer Science</li> <li>▪ Economics or AP Microeconomics</li> <li>▪ A 5th course of science</li> <li>▪ Principles of Biomedical Science</li> <li>▪ Statistics</li> <li>▪ Introduction to Engineering Design</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ World Languages above level II</li> <li>❖ Psychology (AP or Academic)</li> <li>❖ AP Human Geography</li> <li>❖ ICON Global Studies</li> <li>❖ Office Systems Management (Excel/Access)</li> <li>❖ Principles of Business Administration &amp; Management</li> <li>❖ Nutrition Technology</li> <li>❖ Fine or Performing Arts</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Athletic Training I (1/2 credit)</li> <li>❖ Athletic Training II (1/2 credit)</li> <li>❖ Computer Keyboarding for College &amp; Careers (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> </ul>

Concentrations	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement.</i>
Exercise Science	<ul style="list-style-type: none"> <li>❖ 2 credits from the following:               <ul style="list-style-type: none"> <li>▪ Weight Training (1/2 credit)</li> <li>▪ Weight Training II (1/2 credit)</li> <li>▪ Stretching and Toning (1/2 credit)</li> <li>▪ Stretching and Toning II (1/2 credit)</li> <li>▪ Team Sports (1/2 credit)</li> <li>▪ Team Sports II (1/2 credit)</li> <li>▪ Recreational Sports (1/2 credit)</li> <li>▪ Recreational Sports II (1/2 credit)</li> <li>▪ Aerobics (1/2 credit)</li> <li>▪ Aerobics II (1/2 credit)</li> <li>▪ Athletic Training I (1/2 credit)</li> <li>▪ Athletic Training II (1/2 credit)</li> </ul> </li> <li>❖ 2 credits from the following:               <ul style="list-style-type: none"> <li>▪ Nutrition Technology</li> <li>▪ Human Body Systems</li> <li>▪ Psychology (AP or Academic)</li> <li>▪ AP Biology</li> <li>▪ Office Systems Management (Excel/Access)</li> </ul> </li> </ul> <p>*All students in this Academy will be certified in first aid and CPR</p>	<ul style="list-style-type: none"> <li>❖ Principles of Biomedical Sciences</li> <li>❖ Principles of Business Administration &amp; Management</li> <li>❖ Human Growth and Development</li> <li>❖ World Languages above level II</li> <li>❖ Journalism I</li> <li>❖ Journalism II: Newspaper or Broadcasting</li> <li>❖ Journalism III: Newspaper or Broadcasting</li> <li>❖ African American Studies (1/2 credit)</li> <li>❖ Women's Studies (1/2 credit)</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> <li>❖ Computer Keyboarding for College &amp; Careers (1/2 credit)</li> </ul>

### Internships (Internal/External)

- Biomedical Internship
- School-based internship
- Optional qualifying internship



### Clubs and Organizations:

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| <ul style="list-style-type: none"> <li>▪ Envirothon Team</li> <li>▪ Calculator Club</li> <li>▪ Computer Bowl Club</li> <li>▪ Environmental Club</li> <li>▪ Humane Society Club</li> <li>▪ Math Club</li> </ul> | <ul style="list-style-type: none"> <li>▪ MESA</li> <li>▪ VEX Robotics</li> <li>▪ STEM Club</li> <li>▪ Women in Engineering</li> <li>▪ 3D Print Club</li> <li>▪ Mu Alpha Theta</li> </ul> |
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# TEACHER ACADEMY OF MARYLAND (TAM)

**Mission:** The Huntingtown High School Teacher Academy of Maryland program is designed to provide students with the tools necessary to pursue a career in K – 12 education. This academy will also prepare participants for future education and careers related to the field of education.

## Potential Careers:

- Teacher (General/Special Education/ESL)
- School Counselor
- Instructional Assistant
- Speech/Language Pathologist
- College Professor
- Business Educator/Trainer
- School Psychologist
- School Administration
- Coach
- Audiologist
- Preschool/Daycare - Provider, Director and/or Owner

**Requirements:** To become a Teacher Academy of Maryland Academy Scholar, students must complete the credit requirements from the list below.

Pathway	In addition to the graduation requirements, the following are required courses for this academy:	Choose 1 or more credits from the following: <i>*These credits must be above a graduation requirement</i>
Teacher Academy of Maryland	<ul style="list-style-type: none"> <li>❖ Human Growth and Development Through Adolescence</li> <li>❖ Teaching as a Profession</li> <li>❖ Foundations of Curriculum and Instruction</li> <li>❖ Education Academy Internship</li> </ul>	<ul style="list-style-type: none"> <li>❖ Psychology (AP or Academic)</li> <li>❖ Sociology</li> <li>❖ AP Human Geography</li> <li>❖ Foundations of Computer Science</li> <li>❖ Office Systems Management: (Excel/Access) or (Word/PowerPoint)</li> <li>❖ Computer Keyboarding for College and Careers (1/2 credit)</li> <li>❖ Honors Writing for Advanced Courses and College (1/2 credit)</li> <li>❖ Creative Writing (1/2 credit)</li> <li>❖ Cultural Anthropology (1/2 credit)</li> <li>❖ World Languages</li> <li>❖ Theatre/Acting</li> <li>❖ Honors Introduction to Philosophical Thought (1/2 credit)</li> </ul>

## Clubs and Organizations:

- Educators Rising (required)
- Psychology Club
- TIE Tutor
- Best Buddies
- Student Government

