

Thomas S. Wootton High School Resource Teachers and Special Program Coordinators Presentation



Scan here for
Class of 2028
Course Planning Card!



Welcome from Mr. Nelson



- Welcome to the Wootton family.
- Scheduling decisions are important and impactful.
- Listen to and follow your child's interests and trust your decisions.
- You have a support team at Wootton.

MCPS GRADUATION REQUIREMENTS



ON TRACK FOR GRADUATION

Class of 2027

FIRST YEAR NINTH GRADE: 2023–2024 MCPS Graduation Requirements at a Glance

THE STATE OF MARYLAND AUTHORIZES 1 DIPLOMA for all high school graduates, based upon successful fulfillment of four categories of requirements: enrollment, course credit, student service learning (SSL), and Maryland Comprehensive Assessments (MCA). Students must satisfactorily complete four years beyond Grade 8 to meet the enrollment requirement unless an alternative enrollment plan is developed and a waiver is approved as outlined in regulation ISB-RA. All other requirements are summarized in the table below. Please consult the online MCPS Course Bulletin for 2022–2023 at coursebulletin.montgomeryschoolsmd.org/Home/PlanningTools or your school counselor for further information.

COURSE CREDITS

COMPUTER SCIENCE, ENGINEERING OR TECHNOLOGY EDUCATION (TE)	1 credit designated TE . Courses satisfying this requirement are designated in the course bulletin and includes the study of computers and algorithmic processes or the application of knowledge, tools, and skills to solve practical problems and extend human capabilities.	
ENGLISH	4 credits of organized instruction in comprehension of literary and informational texts, writing, speaking and listening, language, and literacy, of which 1 credit shall be aligned with the MCA for English.	
FINE ARTS	1 credit in dance, media arts, music, theatre, or visual art, or a combination of these.	
HEALTH EDUCATION	1 credit	
MATHEMATICS	4 credits. 1 including instruction in algebra aligned with the MCA for algebra or 1 or more credits in subsequent mathematics courses for which Algebra 1 is a prerequisite, and 1 with the content standards for geometry.	
PHYSICAL EDUCATION	1 credit	
SCIENCE	3 Next Generation Science Standards (NGSS) credits, including 1 life science credit aligned to the MCA for science, 1 physical science credit, and 1 credit in Earth/space science or an NGSS course with the topics of Earth/space science integrated.	
SOCIAL STUDIES	3 credits, 1 U.S. History credit, 1 World History credit, and 1 National, State, and Local Government credit aligned with the MCA for government.	
WORLD LANGUAGES OR PROGRAM OF STUDIES AND ELECTIVES	2 credits of the same world language which may include 2 credits of American Sign Language AND 2 credits in elective courses,	OR Complete a state-approved career and technical education program of study (POS) AND a minimum of 0.5 credit in elective courses or more depending on POS

STUDENT SERVICE LEARNING (SSL)

STUDENT SERVICE LEARNING (SSL)	75 service-learning hours The SSL requirement is prorated for students enrolling in MCPS for the first time after Grade 6.
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MARYLAND COMPREHENSIVE ASSESSMENT (MCA) REQUIREMENTS^{1,2} These assessment requirements are subject to change by Maryland State Department of Education (MSDE).

ALGEBRA 1	Course credit earned in Algebra 1 AND <ul style="list-style-type: none"> Take the Algebra 1 assessment If the Algebra 1 course was passed during 2019–2020, a COVID waiver was awarded to meet the assessment requirement. No additional test participation is required and the student's test status will read as "Not Required."
ENGLISH 10	Course credit earned in English 10 or equivalent, or English 10 for ELs AND <ul style="list-style-type: none"> Take the English Language Arts/Literacy assessment
GOVERNMENT	Course credit earned in National, State, and Local Government or equivalent AND <ul style="list-style-type: none"> Take the Government assessment
SCIENCE	Course credit earned in Biology or equivalent, AND <ul style="list-style-type: none"> Take the Life Science assessment

¹ Substitute Test: Students earning qualifying scores on substitute tests (AP/IB) will meet the MCA requirement in that content area.

² Transfer Credit: Students transferring from outside Maryland public schools may be eligible to meet some MCA content-area requirements with transfer credit.



HOW TO CHOOSE COURSES

1. Look at the Academic Planning [Interactive Course Bulletin](#).
2. Use the planning card to help guide you when registering for courses.
3. Choose 7 classes for each semester (A & B).
Total of 14 classes.
4. Remember balance is key.
5. Ask yourself are you being challenged enough? Too much? Are you taking high level classes in the subjects you enjoy? Are you remembering your extracurricular activities? **Do you have time to take care of yourself?**
6. Think about your 4 year plan.
7. Add in 4 ALTERNATE class choices.



How to Register in StudentVue

Thomas S. Wootton High (240-740-1500)
2023-2024 School Year, Grade: 11

Selection Time Period: 12/11/2022 - 2/17/2022
Counselor: Elizabeth Robinson

[Click here to return to course request summary](#)

Course Request

Search Courses

Enter a search value to filter any of the applicable course fields.

Search Courses

Add	Course
Req	Alt
+ Add Request	Course ID: AMC2014 Course Title: TV Production 1 School: Thomas S. Wootton High
+ Add Request	Course ID: AMC2015 Course Title: TV Production 2 School: Thomas S. Wootton High
+ Add Request	Course ID: ART2001A Course Title: Foundation of Art and Culture A School: Thomas S. Wootton High
+ Add Request	Course ID: ART2001B Course Title: Foundation of Art and Culture B School: Thomas S. Wootton High
+ Add Request	Course ID: ART2017A Course Title: NC Foundation of Art A School: Thomas S. Wootton High
+ Add Request	Course ID: ART2017B Course Title: NC Foundation of Art B School: Thomas S. Wootton High
+ Add Request	Course ID: ART2022A Course Title: Fashion Illustration 1A School: Thomas S. Wootton High
+ Add Request	Course ID: ART2022B Course Title: Fashion Illustration 1B School: Thomas S. Wootton High
+ Add Request	Course ID: ART2030A Course Title: Adv Fashion Illustr 2A School: Thomas S. Wootton High
+ Add Request	Course ID: ART2030B Course Title: Adv Fashion Illustr 2B School: Thomas S. Wootton High

1. Click on Course Requests
2. Search by scrolling through the courses which are alphabetical by subject.
OR

Search for courses by typing in the name or ID of the course.

3. Click “Add Request” to have 7 courses for 1st semester (A) and 7 courses for 2nd semester (B) with a total of 14 courses.

Humanities & Arts Signature Program



**For students who are passionate about literature, history,
languages, film, art, culture, theatre, and music...!**

A unique, flexible, and challenging course of study

- Students study in a cohort, with enriched sections of 9th/10th English and Social Studies; 11th Grade Social Studies
- Field trips, workshops, speakers
- Capstone courses



Course Requirements

Humanities Focus

- (4) **English***
- (3) **Social Studies***
- (3) **World Languages**
- (1) **Fine Arts**
- (2) **Additional Electives** (may be in any of the four major humanities and/or arts disciplines)
 - (1) **AP Seminar** (may be taken as 10th grade English OR as an elective)
 - (1) **AP Research** (in 11th OR 12th grade)

*all H&A students are enrolled in a program cohort in 9th and 10th grade English and Social Studies.



AP Capstone Program

The Signature Program is completed by Humanities Focus students by enrolling in the [AP Capstone Program](#) through College Board.

- ❑ [AP Seminar](#)* (taken as the 10th grade English course OR as an elective)
- ❑ [AP Research](#) (taken in 11th or 12th grade)

Course Requirements: Arts Focus


- (4) English*
- (3) Social Studies*
- (5) Fine Arts (4+1)
- (2) World Languages
- (1) Arts Capstone (seniors only)

*all H&A students are enrolled in a program cohort in 9th and 10th grade English and Social Studies.



Arts Capstone

The Signature Program is completed by Arts Focus seniors enrolling in the Arts Capstone course.

- ❑ Student designs and completes an Arts Project of significant quality and scope.
 - ❑ All Arts Projects will have a performance/exhibit and a written component.
- 

Independent Experience

Students must complete one off-campus experience during the program*:

- An internship
- A study abroad experience
- A university program
- Private art lessons (Arts Focus students)
- Other programs/projects as requested and approved by Coordinator



H&A Program

- ❑ We have graduated 22 classes of 1150+ students!
- ❑ Our students complete an average of 7+ AP courses AND an unweighted GPA of 3.65.
- ❑ Our graduates have gone to such universities as Harvard, Columbia, Cornell, Georgetown, Swarthmore, UMD, UMichigan, USC, UCLA, UVA...

How Do I Join H&A?

- ❖ Students can fill out the [application form](#) online; the link is on the H&A page of the Wootton website.
- ❖ Applications are due by **January 26, 2024**
- ❖ Students will be formally notified
of acceptance into the program

Michelle Hanson, Coordinator

Michelle.A.Hanson@mcpsmd.org

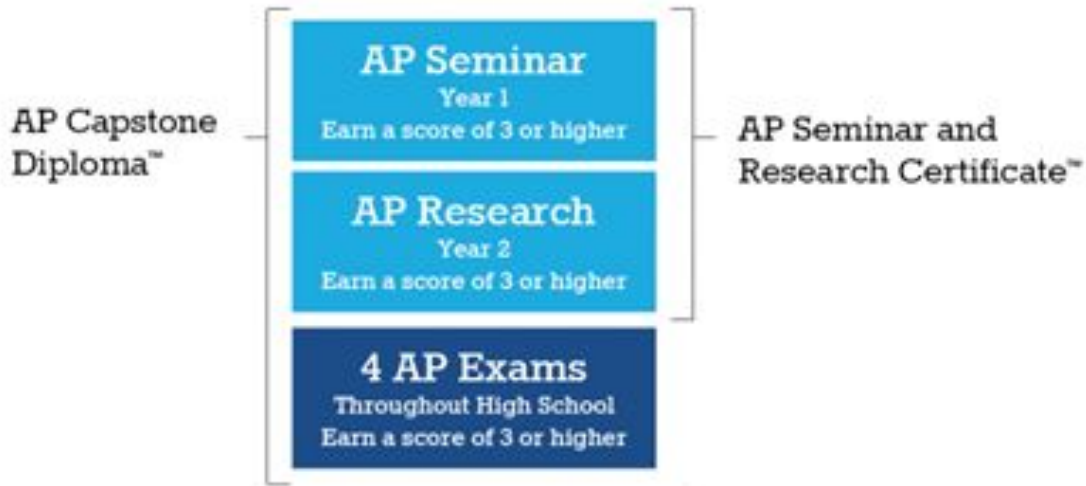


AP Capstone Program at Wootton



AP Capstone™


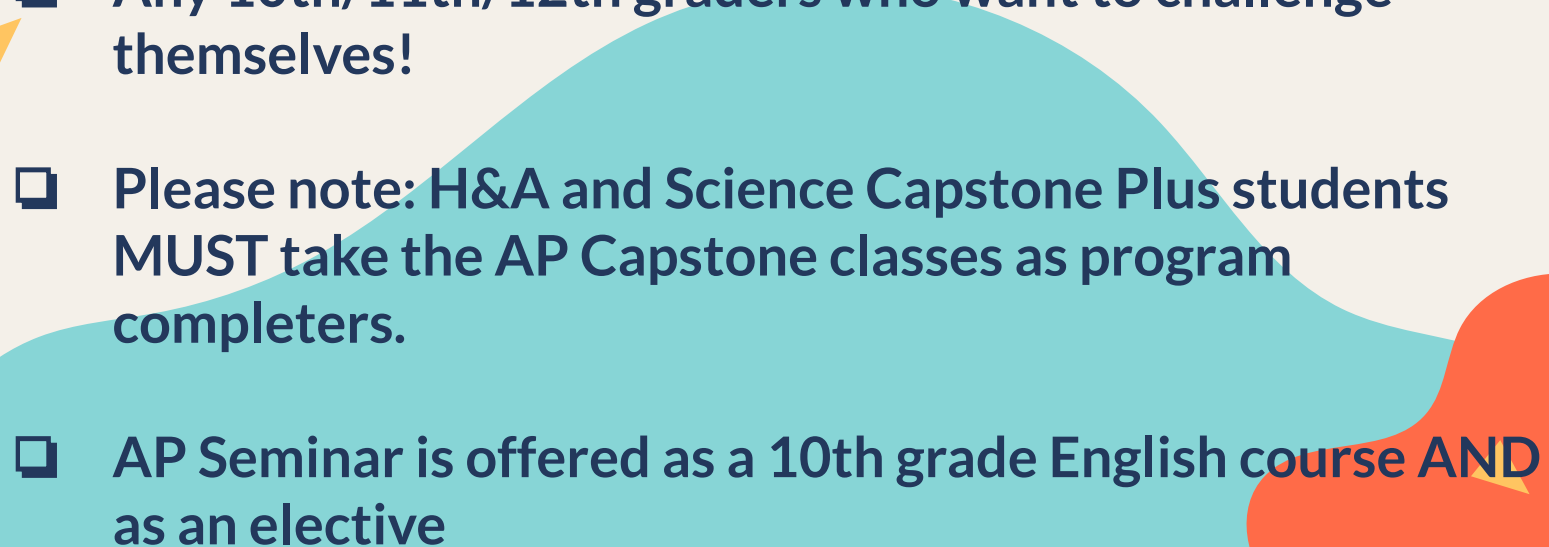
Research, Academic Rigor, Distinction



For more information, contact Mrs. Michelle Hanson
Email: Michelle_A_Hanson@mcpsmd.org



Who may take AP Capstone classes?

- 
- ❑ Any 10th/11th/12th graders who want to challenge themselves!
 - ❑ Please note: H&A and Science Capstone Plus students **MUST** take the AP Capstone classes as program completers.
 - ❑ AP Seminar is offered as a 10th grade English course **AND** as an elective
- 

Benefits

AP Capstone **benefits** include the following:

- Becoming a self-confident, independent thinker and problem solver
- Developing key skills to use in college and beyond
- Studying topics of student's own choosing for each project
- Conducting original research and learning how to present it professionally
- Standing out in the college admissions process as AP Capstone Candidates/Diploma Holders

For more information, contact Mrs. Michelle Hanson

Email: [Michelle A Hanson@mcpsmd.org](mailto:Michelle.A.Hanson@mcpsmd.org)

The background is a vibrant orange color. Scattered around the text are various mathematical items: a blue compass in the top left, a blue calculator in the top right, a yellow number '2' in the top left, a pink number '2' in the top right, a green number '8' in the middle right, a yellow number '7' in the bottom right, a blue number '8' in the bottom right, a pink number '0' in the bottom left, a purple number '2' in the bottom center, a blue protractor in the middle left, a wooden abacus in the bottom left, and a blue protractor in the top center.

Math **Department**

Resource Teacher: Ms. Kayla White

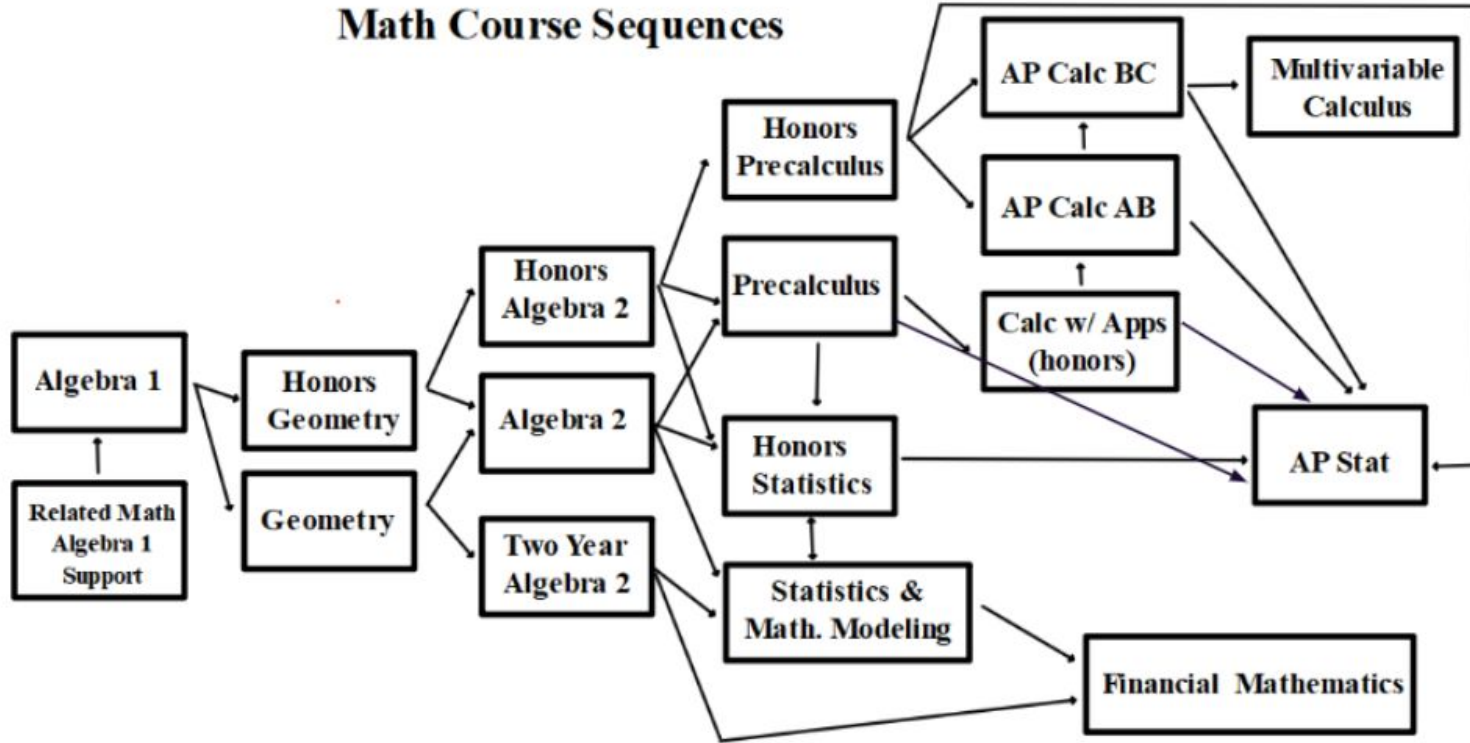
Email: [Kayla E White@mcpsmd.org](mailto:Kayla_E_White@mcpsmd.org)

Math Requirements

- Students must have four math credits to graduate.
- Two classes are required for every student
 - Algebra One and Geometry
- Students must be enrolled in a math course all four years of high school.
- MCAP Algebra 1 Testing Requirement

COURSE SEQUENCE

Math Course Sequences



RIISING NINTH GRADERS

8th grade math course	9th grade math course	10th grade math course
Math 8	Algebra 1 Related Math**	Geometry
Algebra 1	Hon. Geometry Geometry	Hon. Algebra Two Algebra Two
(Hon) Geometry	Hon. Algebra Two Algebra Two	Hon. Pre Calculus Pre Calculus
(Hon) Algebra Two	Hon. PreCalculus Pre Calculus	AP Calculus (AB or BC) Calc w/ Apps

OTHER MATH THOUGHTS..

- Reach out to your current math teacher for an informal recommendation
- Honors vs Regular (On-level)
 - Faster pace, more in-depth, more topics
 - More independent study and thought
 - Less calculator usage in Honors level
 - Assessment questions may test for deeper understanding
- Average Homework Times
 - Listed in course bulletin.
- Math support options
 - Reach out to your teacher and schedule a time to meet
 - Math Honor Society Tutoring during lunch
- Any questions...please contact Ms. White



FINE ARTS PHYSICAL EDUCATION EARLY CHILD DEVELOPMENT TV PRODUCTION

Resource Teacher: Rebecca O'Neill
Email: Rebecca_L_O'Neill@mcpsmd.org



VISUAL ARTS



- Foundations of Art/Culture
- Ceramics/Sculpture 1
- Fashion Illustration
- Photography 1
- #2D Studio Art 1 (Drawing)
- #*Advanced Painting 1

**Honors/Advanced Level Weighted Credit*

Middle School Art Credit Prerequisite

PERFORMING ARTS



- ***Chorus HS 2**
- ***Chamber Singers (Acappella)**
Audition required
- ***Symphonic Band (Patriot Winds)**
Sign up for recommended class or may audition
- ***Symphonic Band Percussion**
- ***Symphonic Orchestra (Patriot Strings)**
Sign up for recommended class or audition
- **Guitar HS**
- **Piano HS**
- **Theatre 1**
- ***Stage Design (Technical Theatre)**

**Honors/Advanced Level Weighted Credit*

PERFORMING ARTS AUDITION INFORMATION

Chamber Singers (Acappella)- March 13

Choral Director: Keith_A_Schwartz@mcpsmd.org

Students currently not in a band or orchestra class or students who would like to audition for a class they have not been recommended for: Submit a video on Canvas by April 1.

Band Director: Susan_Eckerle@mcpsmd.org

Orchestra Director: Carolyn_M_Herman@mcpsmd.org

PE and HEALTH



PE

- Lifetime Sports
- Net Sports
- Team Sports
- Basketball
- Flag Football/ Frisbee/ Floor Hockey
- Soccer
- Yoga/Stretching
- Weight Training

Health

- Health A (1 Semester)
May take in 9th grade
- Health B (1 Semester)
Cannot take until 10th grade

CHILD DEVELOPMENT

We have 10 children, age 4-5 years old, that come to us 4 days a week for their preschool program.

YOU are their teacher!



- ❑ **Plan all activities for preschool children**
- ❑ **Teach all activities you have planned**
- ❑ **Observe preschool children**

*No homework, No tests/quizzes. All grades come from in class activities.
5 SLL hours per semester*

If you enjoy Child Development 1- there are more courses you can take!

Child Development classes may be taken as elective credit or as a state-approved program of study (POS)



Course	Course Code	Notes
Child Development 1 Child Growth and Development	EDU2029A/EDU2029B	5 SSL Hours per Semester
Child Development 2 Learning Environment for Preschoolers	EDU2031A/EDU2031B	Advanced Level (weighted credit) 5 SSL Hours per Semester 90+9 Maryland Clock Hour Certification
Guided Research (Child Development 3)	EDU2027A/EDU2027B	Advanced Level (weighted credit)
Education Internship (Double Period Internship in Elementary or Middle School)		Advanced Level (weighted credit) 10 SSL Hours per Semester Senior Year

TV Production



English Department

Resource Teacher: Evva Starr

Email: Evva_K_Starr@mcpsmd.org





Wootton English

Introduction for Rising 9th Graders



Core English Classes

Grade 9: Honors English 9

Grade 10: Honors 10 or AP Seminar 10

Grade 11: Honors 11 or AP Language

Grade 12: Honors 12 or AP Language 12 or AP Literature

*All MCPS students are required to have 4 credits in English in order to graduate.



What to Expect in Honors English 9

- Honors English 9 is a course designed to strengthen student skills with narrative, argumentative, and analytical writing.
- Many of the major writing tasks will be familiar to students from 8th grade, but each will require them to go deeper into the writing process, developing more sophisticated responses in terms of organization, nuance and detail.
- For most essays, students will write in class in a workshop style writing environment, learning the essentials for writing a high school level essay.
- Most classes will have homework related to reading; some writing will be done at home when finalizing or revising essays. Generally, students will have homework less regularly in English than in other subjects.



Workload

Students can expect the following depending on grade level, curriculum focus, and writing goals at various times throughout the semester.

Classwork

- Close reading of poetry, plays, fiction and nonfiction texts
- Study of argumentative, analytical, and narrative texts
- Workshop style writing environments (building longer writings from start to finish during class time)
- In class essays, timed writings, short responses

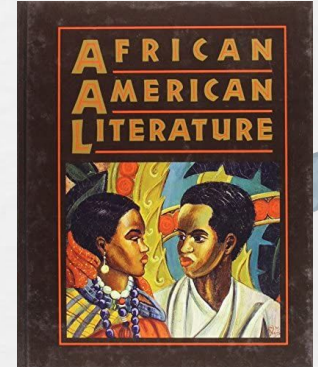
Homework

- Nightly reading
- Vocabulary study
- Research
- Drafting for writing tasks
- Finalizing essays (most essay work will take place during class time)

Electives

Open to 9th Graders

- **Journalism:** Learn how to write articles, design a newspaper, and be a voice for your school and community.
- **Yearbook:** Learn how to design a yearbook; document school events with photography, writing, and design; commemorate your high school experience.
- **African American Literature:** Explore great works of poetry, fiction, and film by some of the most important Black writers and artists of the 20th and 21st century.
- **Film Studies:** Learn about different film styles, classic movies, and how they differ from other art forms.
- **Creative Writing:** Practice with a variety of writing prompts, exploring different genres, structures, and modes for creative narratives.






Questions?

If you have any questions,
please email me,

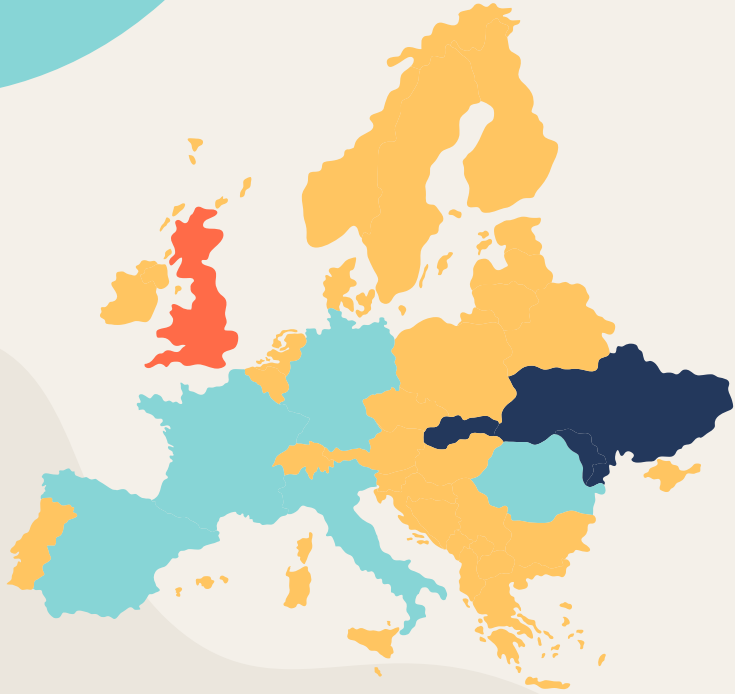
Evva Starr - English Resource Teacher

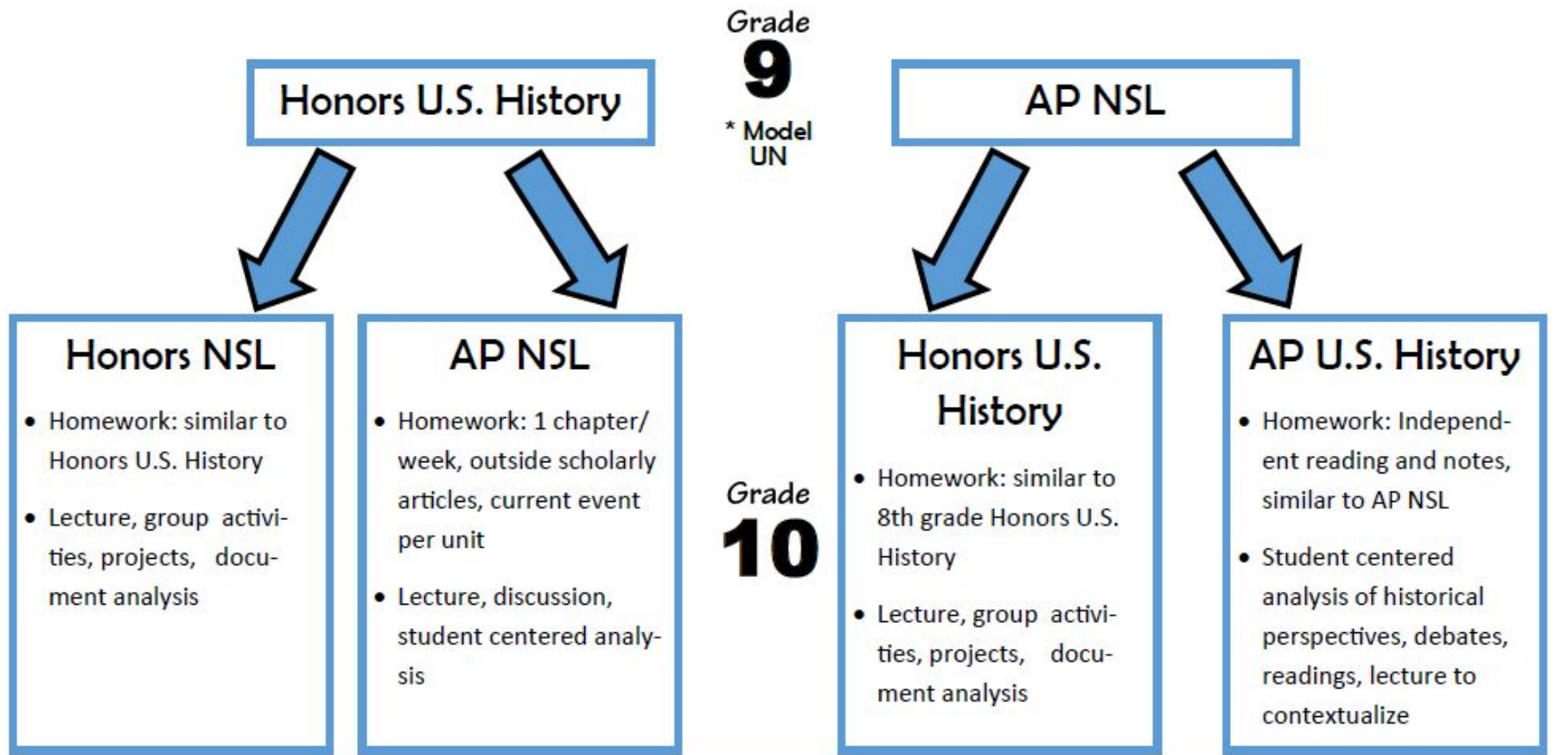
Evva_K_Starr@mcpsmd.org



Social Studies Department

Resource Teacher: Mrs. Laura Parsons
Email: [Laura E Parsons@mcpsmd.org](mailto:Laura_E_Parsons@mcpsmd.org)





Optional Social Studies Electives for rising 10th graders:

Year long: AP Human Geography, AP African American Studies, AP Psychology, Model UN, Sociology

1 Semester: Philosophy, Global Military History, LGBTQ+ Studies

Wootton HS Social Studies

Course	Honors US History	AP US Government & Politics (AP NSL) **
Homework	<ul style="list-style-type: none"> • Similar work to what is completed in 8th grade US History • Assignments in line with the development of Social Studies Thinking Skills • More class time reserved to start HW assignments 	<ul style="list-style-type: none"> • College Level Textbook Reading & Guided Questions - 1 chapter/week • Outside readings with questions. (Foundational documents and SCOTUS cases) • Current events embedded in learning about content • Review guides for every unit.
In Class	<ul style="list-style-type: none"> • Lecture • Hands-on assignments • Unit projects • Development of Social Studies Thinking Skills & critical thinking aligned with the Common Core Standards 	<ul style="list-style-type: none"> • Lecture based discussion and group work • Application of Social Studies Thinking Skills, writing, and critical thinking necessary for success on the AP NSL exam in May. • Practice with 4 written response types and AP style multiple choice questions. • Emphasis on Foundational Documents and SCOTUS cases
Topics Covered	<ul style="list-style-type: none"> • September to June → slower paced as 1/2 of US history is covered in 8th grade • Semester 1: Industrialization through WWII • Semester 2: Post-WWII to 2001's War on Terror, and Afghanistan 	<ul style="list-style-type: none"> • September to mid-April → faster paced as all content needs to be completed prior to the AP exam in May • Topics include: the Constitution, political ideology, political parties, division of power between national and state governments, elections, voting, mass media, interest groups, Congress, Presidency, Executive Branch, Government Agencies, Judicial Branch and court structure, Supreme Court, Checks and Balances, Selective Incorporation, civil rights, civil liberties • <u>Nine</u> required foundational documents & <u>seventeen</u> required Supreme Court cases

** The WHS Summer Institute offers a course for AP NSL to help get ahead in the **skills** that are important for taking AP NSL in 9th or 10th grade!



Grade
11



Honors World History

OR

AP World History

1450 to Present

Similar workload to Honors U.S. and Honors NSL

1200 CE to Present

College Level text and analysis

& Optional Social Studies Electives

Grade
12

Optional Social Studies Electives

- AP Comparative Government
- AP Economics (Macro & Micro)
- AP European History
- AP Psychology
- AP Human Geography
- AP African American Studies
- Personal Finance
- Law
- Sociology
- Model UN
- LGBTQ+ Studies **
- Philosophy **
- World Military History **

** 1 semester course



World Languages Department



Resource Teacher: Dr. James Fetterman

E-mail: james_m_fetterman@mcpsmd.org



Course Options for Next Year

Option #1

Continue with the current language of study

Option #2

Enroll in Level 1 of a new language

Graduation Requirements

Graduation Requirements

- 2 credits in a world language (2 levels)

Other considerations

- University-bound students are recommended to take at least 4 credits of WL in high school
- Going beyond the MSDE requirements...
 - demonstrates a willingness to embrace rigor
 - allows students to attain a meaningful level of proficiency in the language
 - provides the opportunity to join WL Honor Societies
 - provides the opportunity to earn the Maryland Seal of Biliteracy & university credits

Seal of Biliteracy

What is the Seal of Biliteracy?

The Maryland Seal of Biliteracy is a designation at graduation which attests that a student is proficient in English and one or other languages. Students receive a medal to wear at graduation as well as the Seal of Biliteracy imprinted on their diploma.



Why is the Seal of Biliteracy valuable?

High school graduates who can function in two or more languages are equipped with the knowledge and skills to participate successfully in college, careers, and a diverse 21st century society. The Seal of Biliteracy allows students to clearly and officially communicate their language skills to future employers and/or university admissions officers.

How can I earn the Seal of Biliteracy?

Juniors and Seniors enrolled in a level 4 or higher language class are eligible to test and will earn the Seal with a qualifying score. Juniors and Seniors who score a 4 or 5 on an AP Language exam will automatically receive the Seal.

Course Offerings

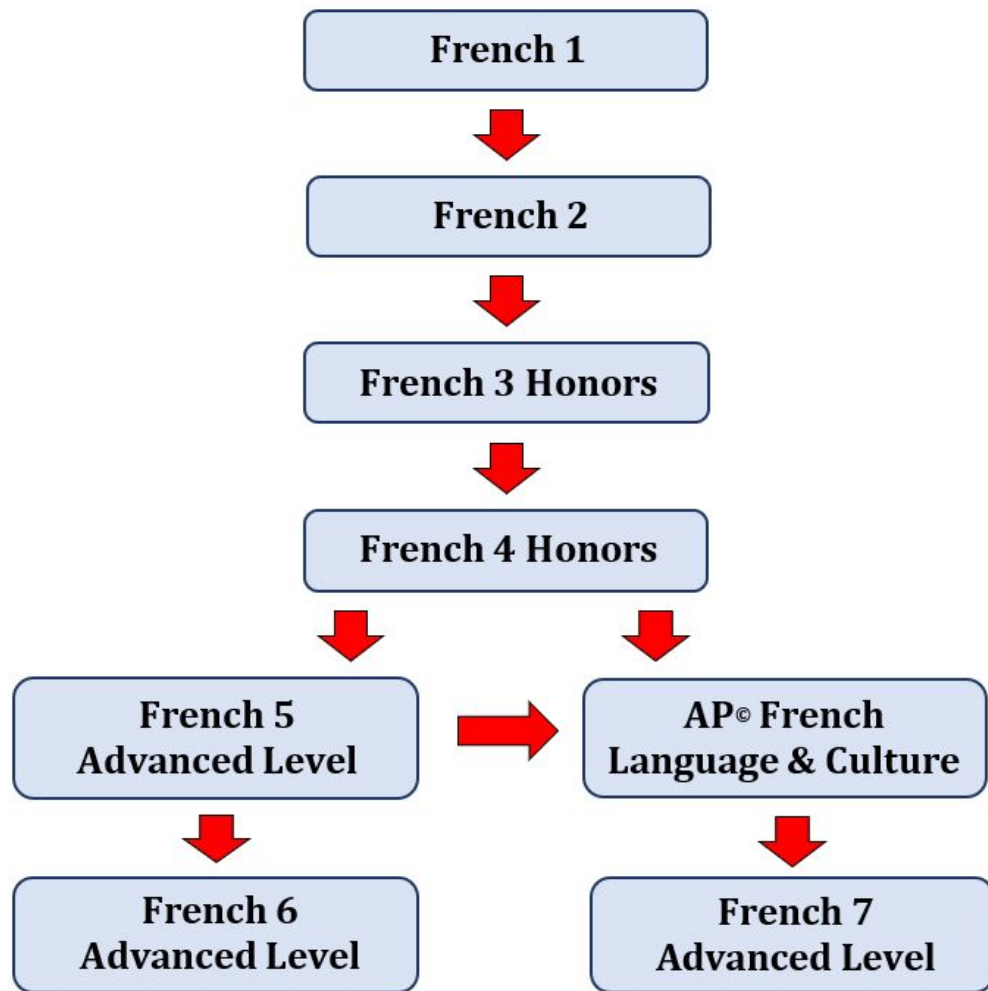
ASL	Chinese	French	Spanish
ASL 1	Chinese 1	French 1	Spanish 1
ASL 2	Chinese 2	French 2	Spanish 2
ASL 3	Chinese 3H	French 3H	Spanish 3H
	Chinese 4H	French 4H	Spanish 4H
	Chinese 5 AL	French 5 AL	Spanish 5 AL
	AP Chinese Lang	French 6 AL	AP Spanish Lang
	Chinese 7 AL	AP French Lang	AP Spanish Lit
		French 7 AL	Spanish 7 AL

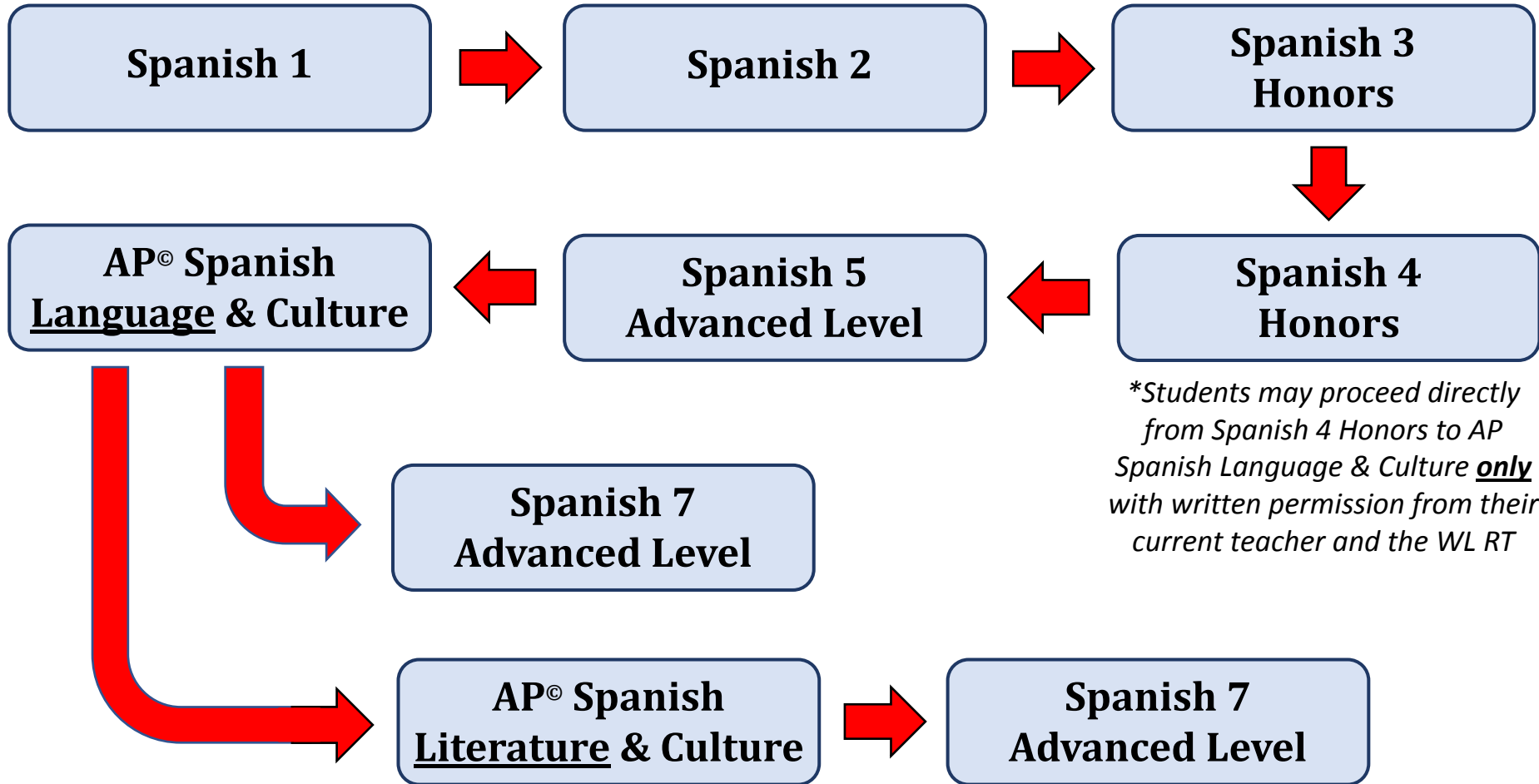
*All course listed as Honors, Advanced Level, and Advanced Placement©
provide students the opportunity to earn additional points in the weighted GPA*

*H = Honors

*AL = Advanced Level

*AP = Advanced Placement ©





Course Offerings

ASL	Chinese	French	Spanish
ASL 1	Chinese 1	French 1	Spanish 1
ASL 2	Chinese 2	French 2	Spanish 2
ASL 3	Chinese 3H	French 3H	Spanish 3H
	Chinese 4H	French 4H	Spanish 4H
	Chinese 5 AL	French 5 AL	Spanish 5 AL
	AP Chinese Lang	French 6 AL	AP Spanish Lang
	Chinese 7 AL	AP French Lang	AP Spanish Lit
		French 7 AL	Spanish 7 AL

All course listed as Honors, Advanced Level, and Advanced Placement© provide students the opportunity to earn additional points in the weighted GPA

*H = Honors

*AL = Advanced Level

*AP = Advanced Placement ©

100%

**AP Exam
Pass Rate***



Contact Dr. Fetterman with any questions

james_m_fetterman@mcpsmd.org

*Based on 2023 results

Computer Science and Technology Department

Resource Teacher: Mr. Paul Turner
Email: James_Turner@mcpsmd.org



Maryland Required 1.0 Tech Ed Credit - 2 Options

Foundations of Computer Science

- Human Computer Interaction
- Problem Solving
- Web Design
- Intro to Programming (Scratch)
- Computing & Data Analysis
- Robotics

AP Computer Science Principles

- Creativity in Computing
- Abstraction
- Data & Information
- Algorithms
- Programming (Javascript)
- The Internet
- Global Impact
- AP Exam + Project Components

Tech Credit AND After Tech Credit

Current Course:
FoCS or AP CS Principles

Web Development

Programming 1

IT Essentials AND/OR Intro Networks



Computer Networking



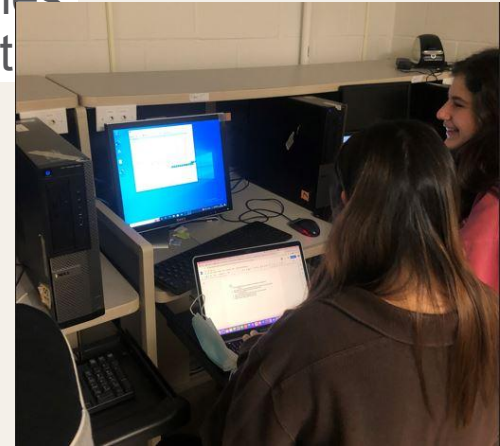
Cisco IT Essentials

- Learn how a computer works and how to configure various aspects of a computer with hands on experience.
- Includes units involving Cyber Security & AWS Cloud Fundamentals - EARN DIGITAL BADGE
- Prepare For [CompTIA A+ Certification Exam](#)
 - One of the most recognized certifications for IT support



Cisco Introduction to Networks

- Learn functions, components, and models of the Internet and other computer networks
- The principles and structure of IP addressing and the fundamentals of Ethernet concepts.
- By the end of the course, students will be able to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement IP addressing schemes
- Also covers Amazon Cloud Fundamentals. (AWS Certificate EARN DIGITAL BADGE FOR AWS)
-





Computer Programming 1



Computer Programming 1

- Learn additional techniques, debugging and problem solving skills using the C++ Programming Language
- Advanced Level Course (Weighted Like an Honors Course)
- Critical course if you want to major in Computer Science
- Requirement for [AP Computer Programming 2](#)

Learn How To Declare Variables

```
#include<iostream>
#include<conio.h>

using namespace std;

int main()
{
    int age;    //age of a student
    double gpa; //gpa of a student
```

Learn How To Write If Statements and Use Loops

```
int num=0;  
cout<<"Enter a number";  
cin>>num;
```

```
while (num>0) //loop  
{  
    cout<<num<<endl;  
    num--;  
}
```

```
cout<<"End of loop";
```



Learn How To Manipulate Arrays and Matrices

LOOPING OVER ARRAY TO ALL CONTENTS

```
string names[] = { "Xena", "Widget", "Flavia" };  
  
cout << "Ms. Petr's Dogs: " << endl;  
for (int i = 0; i < 3; i++)  
{  
    cout << names[i] << endl;  
}
```

Index value of EVERY
array starts at 0

Value here will be total
number of elements in
array



```
C:\Users\betha_000\docu...  
Ms. Petr's Dogs:  
Xena  
Widget  
Flavia  
-
```

Create Puzzles, Games and Develop Your Critical Thinking Skill!

```
What year?: 2016
On what day does January 1st fall? (0) = Sunday: 5

      January
Su  M  T  W  Th  F  Sa
-----
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

      February
Su  M  T  W  Th  F  Sa
-----
 1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29

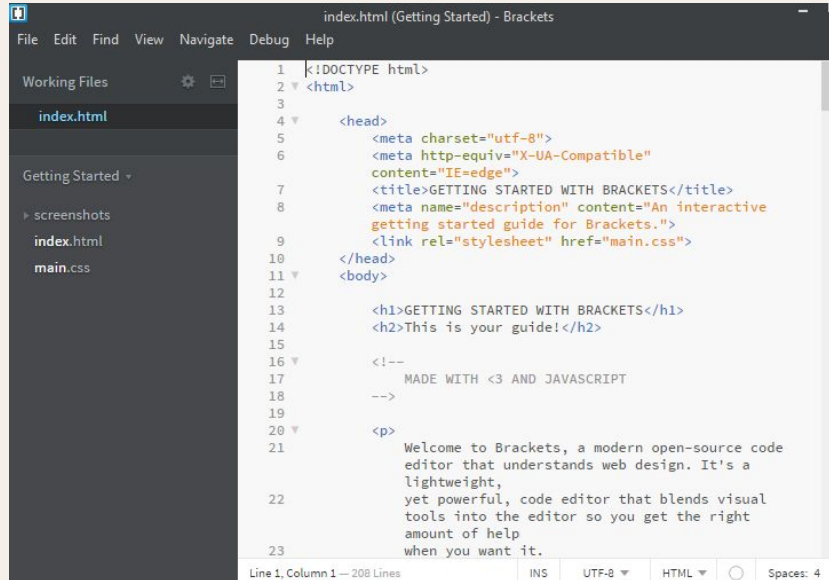
      March
Su  M  T  W  Th  F  Sa
-----
        1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
```



Web Development

HTML

- We write HTML code, not a drag and drop method of creating web pages



```
index.html (Getting Started) - Brackets
File Edit Find View Navigate Debug Help
Working Files
index.html
Getting Started
  screenshots
    index.html
    main.css
1 |<!DOCTYPE html>
2 |<html>
3 |
4 |   <head>
5 |     <meta charset="utf-8">
6 |     <meta http-equiv="X-UA-Compatible"
7 |           content="IE=edge">
8 |     <title>GETTING STARTED WITH BRACKETS</title>
9 |     <meta name="description" content="An interactive
10 |          getting started guide for Brackets.">
11 |     <link rel="stylesheet" href="main.css">
12 |   </head>
13 |   <body>
14 |     <h1>GETTING STARTED WITH BRACKETS</h1>
15 |     <h2>This is your guide!</h2>
16 |
17 |     <!--
18 |       MADE WITH <3 AND JAVASCRIPT
19 |     -->
20 |
21 |     <p>
22 |       Welcome to Brackets, a modern open-source code
23 |       editor that understands web design. It's a
24 |       lightweight,
25 |       yet powerful, code editor that blends visual
26 |       tools into the editor so you get the right
27 |       amount of help
28 |       when you want it.
29 |     </p>
30 |   </body>
31 | </html>
```

Line 1, Column 1 — 208 Lines INS UTF-8 HTML Spaces: 4

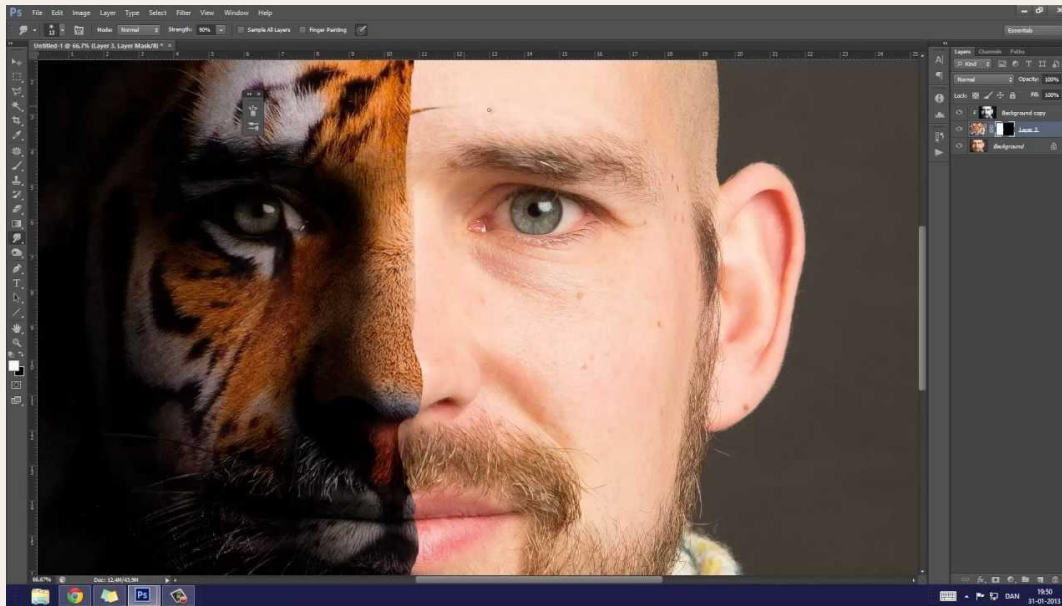
CSS

- Used to make our web pages PRETTY



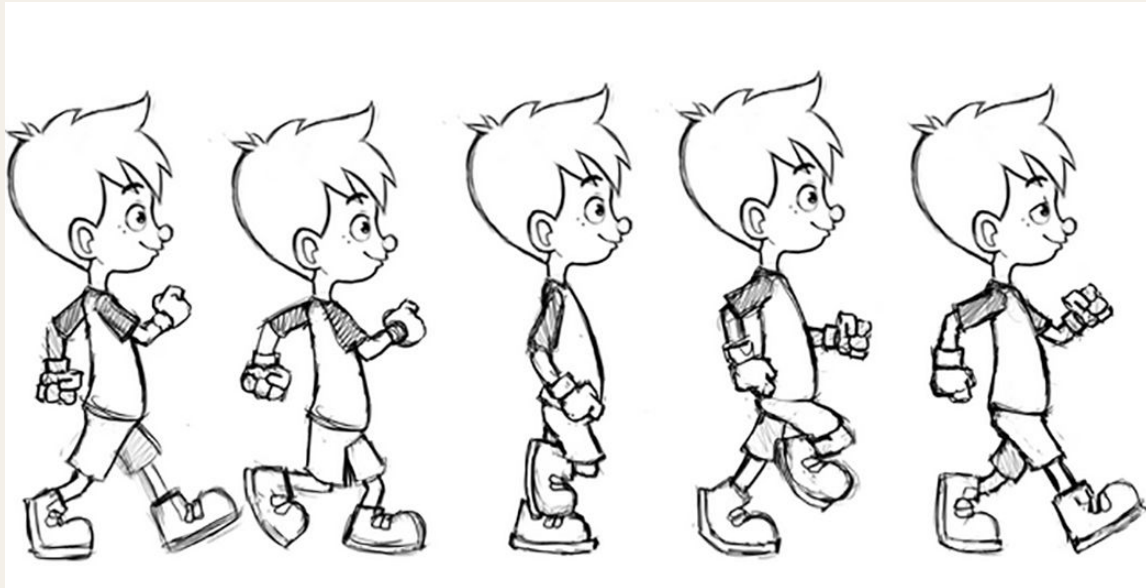
Photoshop

- We use Photoshop and Fireworks to create/enhance images



Animation

- We use FLASH or Fireworks for animation



AOIT

ACADEMY OF INFORMATION TECHNOLOGY



AOIT



- **Small Learning Community**
- **Students Specialize In A Pathway, Taking At Least One Course Per Year**
- **Expected To Complete An Internship Between 11th and 12th Grade**

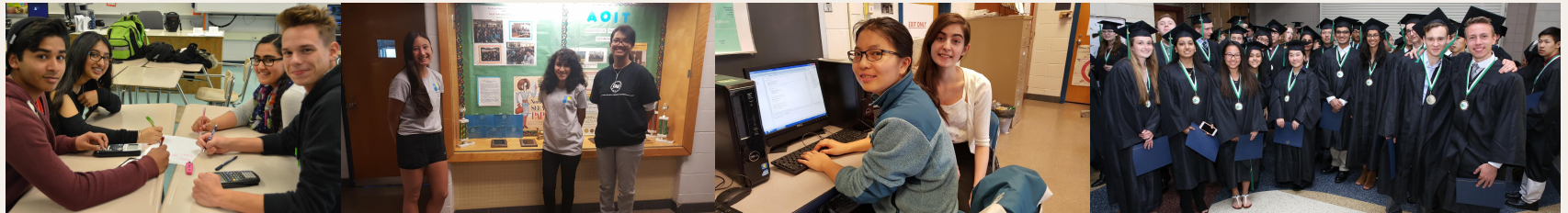
AOIT - SPECIAL ACTIVITIES

- Shared Homerooms
- Competitions, Events, Scholarships
- Speaking Events
- Resume Writing Workshop
- Mock Interviews



Application Deadline is Day Before Spring Break

More Information Can Be
Found On The [AOIT Website](#)
Or:





Science Department ▶

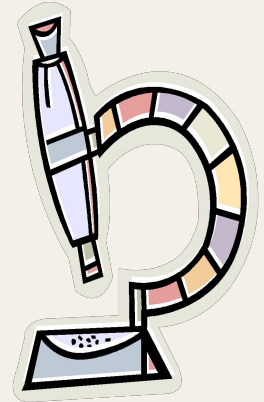
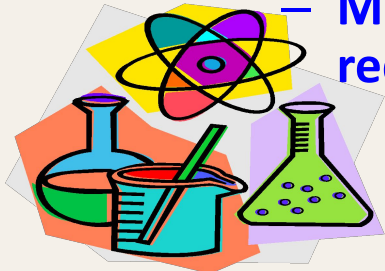
Resource Teacher: Mr. Michael
Thompson

Email:

[Michael U Thompson@mcpsmd.org](mailto:Michael_U_Thompson@mcpsmd.org)

Maryland High School Science Requirements

- 3 credits of NGSS (Biology, Chemistry, and Physics) or AP science needed for graduation. (credit = full year class)
 - 1 credit must be Life Science (Biology)
 - 1 credit must be Physical Science (Chemistry or Physics)
 - 1 other science credit-NGSS or AP
 - High School Life Science MISA given during year of Biology
 - Many students take more science courses than required.



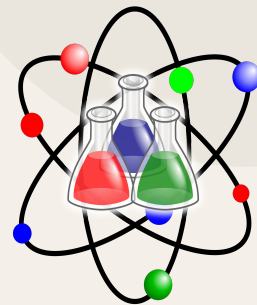
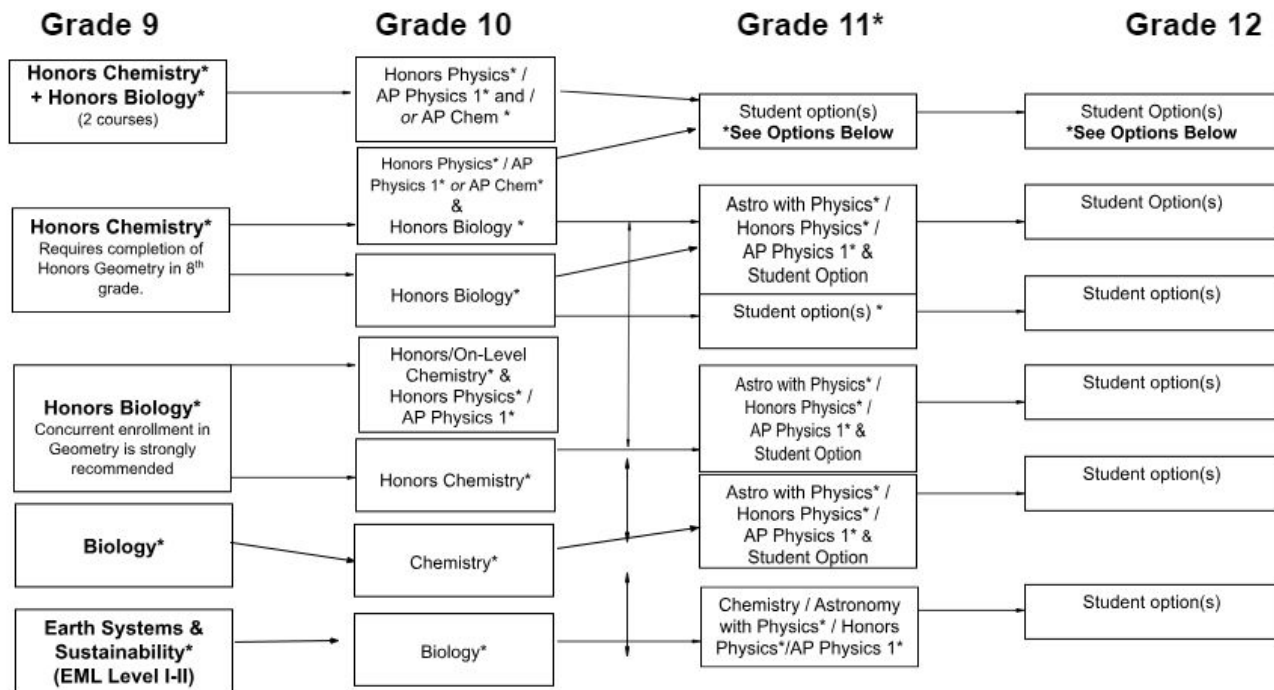
Class of 2028 9th Grade Course Options

Science Resource Teacher: Michael_U_Thompson@mcpmd.org

Course:	Earth Systems & Sustainability	Biology	Honors Biology	Honors Chemistry	Honors Biology + Honors Chemistry (2 separate courses)
Description / Requirements	NGSS-Aligned course that covers geosphere, atmosphere, biosphere, and hydrosphere; as well as Earth in space. Students explore connections to sustainability issues and potential solutions.	NGSS-aligned project-based learning in major concepts of Biology: genetics, properties of organisms and ecosystems. LS MISA score is embedded in semester 2 grade.	Same as Biology, with added focus on preparing students for AP Biology and upper level Biology electives. Requires concurrent enrollment in Geometry. LS MISA score is embedded in semester 2 grade.	NGSS-aligned Inorganic Chemistry (taken with 10 th – 11 th graders) <ul style="list-style-type: none"> • Requires a full year of H. Geometry (with 'A' grade) before starting H. Chemistry. 	Students must: <ul style="list-style-type: none"> • Complete Honors Geometry in 8th grade • Requires counselor approval
Benefits	This course will build science background knowledge for Emergent Multilingual Learners (levels I/II)	<ul style="list-style-type: none"> • Allows for smoother transition to high school academics • Maintains pathways to upper-level (Honors & AP) Science courses (students can transition to Honors Chemistry in 10th grade) 	<ul style="list-style-type: none"> • Adds enrichment with upper-level courses in mind: AP Biology, Molecular Biology, Anatomy & Physiology • Students may choose to double up, taking Honors Chemistry along with AP Physics 1 or Honors Physics in 10th grade. This leaves 2 years to take any upper level science course offered. 	<ul style="list-style-type: none"> • Students can accelerate science coursework by taking AP Chemistry with Honors Biology in 10th grade. • This also leaves 2 years to take any other upper level science course offered 	<ul style="list-style-type: none"> • Students can accelerate science coursework by taking AP Chemistry and / or AP/Honors Physics in 10th grade • This is for students with a passion for science and very strong academic records. • This allows for the most opportunity to take a diverse set of science courses.

Wootton Science Sequences

Science Resource Teacher: Michael_U_Thompson@mcpmd.org



Upper Level Options include: AP Biology (2 credit-double period), AP Chemistry (2 credit-double period), AP Environmental Science (1 credit-single period), AP Physics C (double period—2nd year physics course), Human Anatomy and Physiology♦, Molecular Biology♦, Forensic Science♦, Honors Nutrition♦, Science Internship♦.

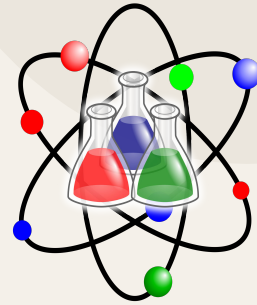
♦Designated honors.

* Honors/On-level Biology & Chemistry, Astronomy with Physics, Honors Physics, and any AP science course fulfill high school graduation requirements. Students must take a total of three courses from this list. At least one must be life science (biology) and 1 must be physical science (any non-biology course).

Course Options:

- Students elect to take these after meeting graduation requirements

<h2>AP Courses</h2> <p>(these can count as 3rd required course)</p>	<h2>Honors Electives</h2>
<ul style="list-style-type: none">● AP Environmental Science● AP Biology● AP Chemistry● AP Physics 1 (1st year physics course)● AP Physics C (2nd year physics course)	<ul style="list-style-type: none">● Honors Nutrition Science● Forensic Science● Anatomy & Physiology● Molecular Biology● Science Internship





AP Capstone
Diploma™

AP Seminar

Year 1

Earn score of 3 or higher

AP Research

Year 2

Earn score of 3 or higher

4 AP Exams

Throughout High School
Earn score of 3 or higher



AP Seminar
and Research
Certificate™

Wootton Science Capstone Plus (formerly STARS)

This program combines students' love of science with [College Board's AP Capstone Program](#) to offer extraordinary preparation for STEM learning at the university level. Students can apply in 8th grade, but must apply by the end of 9th grade. [USE THIS FORM TO APPLY.](#) [Questions?](#)

<u>Suggested Course Pathways</u>	<u>Required Summer Experience</u>	Enrichment Opportunities
<p>1. -All Science Capstone pathways require AP Seminar and AP Research, along with <u>4 other AP Courses</u>. At least 1 of the 4 extra AP courses needs to be a science course. The following are <u>suggested</u> pathways, but all students can design their own.</p> <ul style="list-style-type: none"> • Environmental Science Focus <ul style="list-style-type: none"> ○ AP Environmental Science ○ AP Macro/Micro Economics ○ AP Human Geography ○ AP Biology /Chemistry/ Physics • Medical Science Focus <ul style="list-style-type: none"> ○ AP Chemistry ○ AP Biology ○ Molecular Biology / Anatomy & Physiology / Forensic Science / Honors Nutritional Science • Engineering Focus <ul style="list-style-type: none"> ○ AP Physics 1 ○ AP Physics C: Mechanics / Electricity & Magnetism ○ AP Computer Science 	<ul style="list-style-type: none"> • STEM-focused off-campus formal learning experience (minimum time: 5 full days or the equivalent) • STEM-focused professional internship • Eco-tourism experience (minimum time: 5 full days or the equivalent) • Lab Visits: Visit three private or government STEM-based research labs • Natural Park Visits: Visit three national, state, or local natural parks and document the experience 	<ul style="list-style-type: none"> • Attend (in-person or virtually) a STEM-based lecture (includes peer summer experience presentations) • Attend STEM-focused field trip • Participate in STEM-based community service <p>QUESTIONS? Send an email to: Michael_U_Thompson@mcpsmd.org</p>

Wootton Science Capstone⁺



QUESTIONS?

Fill out the google form here:

<https://forms.gle/3wSR5guQzdupM3DZ9>

