You will use this PowerPoint to review graduation requirements and to read descriptions about all our electives and programs.
Using this PowerPoint, SWBAT...

- Review graduation requirements
- Learn how to fill out your course registration form
- View an Electives Presentation!
Graduation Requirements

- **21 Credits** (17 specific credits + 4 Completer credits)

- **75 Service Learning Hours**

- **HSA or PARCC/MCAP or MISA**
  - English 10 PARCC/MCAP
  - Algebra I PARCC/MCAP
  - Living Systems MISA
  - American Government HSA
# 17 Required Classes that **ALL** Students Must Take

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>English</strong></td>
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<tr>
<td>English 9/ESOL 1</td>
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<td>English 11</td>
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<td>English 12/ESOL 2</td>
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<td>World History</td>
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<td><strong>Math</strong></td>
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<td>Senior Year Math</td>
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<td><strong>Science</strong></td>
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<td>Living Systems</td>
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<td>Earth Systems</td>
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<tr>
<td><strong>Fine Arts</strong></td>
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<tr>
<td><strong>Technology Ed.</strong></td>
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<tr>
<td><strong>Health</strong></td>
<td>.5</td>
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<td><strong>PE</strong></td>
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COMPLETER – all students must select 1 completer program (4 credits required for graduation)

- World Language/College Completer (2 years of World Language and 2 academic electives)
- Business...Marketing or Business Management
- Information Technology – Computer Science
- Career to Work Program
- Carpentry
- Project Lead the Way "PLTW" – Engineering
- Teachers Academy of Maryland *new

Your counselor can answer any questions
Ms. Harley & Mr. Simon can answer any questions
Ms. Watson & Ms. Harley can answer any questions
Mr. Bennett can answer any questions
Mr. Peitz & Mr. Buckler can answer any questions
Ms. Purdie can answer any questions
Ms. Harley can answer any questions
What Counts for Fine Arts?

- Fundamentals of Art
- Concert Choir
- Honors Chorale
- Class Piano I
- Guitar I
- Music & Audio Technology 1
- Symphonic Winds (Band)
- Symphonic Orchestra
- Percussion Ensemble
- Theater Arts 1
- Dance (1, 2, 3, 4)
- AP Music Theory
What Counts for Technology Education?

• PLTW Intro to Engineering Design Honors

OR

• ***Foundations of Computer Science
• ***AP Computer Science Principles

***These courses are also a part of a Completer program, so they cannot count for your Tech credit and your Completer
Student Service Learning

• All students must earn 75 hours of student service learning (check your report card or BCPSOne/Student Info to see how many you have.)

• You must work in a volunteer capacity for a non-profit organization

• Service Learning hours can be earned in American Government, English 10, Technology Education, Living Systems

• Many scholarships are available for students with ongoing community service above and beyond the requirement

• See Mr. Needel with questions
How to Fill Out Your Registration Form

1. Review your pre-printed courses listed on your registration form. These courses were recommended to you by your teachers.
   A. Cross out any courses you do not want to take.
   B. You need a teacher signature for any level changes or an AP course that isn't already listed.
   C. If a subject is missing (for example, a math course), ask your teacher for their recommendation

2. Put a Check Mark next to the electives you would like to take

3. You should have a total of 8 credits (courses listed + electives)

4. Select 3 to 4 Alternatives by writing “1, 2, 3, 4” If you do not list Alternatives, they will be selected for you. You will NOT have an opportunity to make changes next year.
You do not need to make an appointment with your School Counselor to talk about classes for next year.

Counselors will sit one-on-one with you in English or Academic Foundations or Learning Through Content, to review your credits and make sure your registration form is filled out correctly.

Mr. Lee    Last names A – G
Mrs. Drylie Last names H – M
Ms. Wilson  Last names N – Z
Mr. Montgomery ESOL grades 9 & 10
TAKE YOUR SELECTIONS SERIOUSLY...

THERE WILL BE **NO SCHEDULE CHANGES**!

Starting November 25th, School Counselors will start meeting with students in class. When your counselor comes to your class, you should have:

- 8 credits selected
- 3 to 4 Alternates
- Teacher initials for level changes
Electives Presentation

You do not need to look at every slide, you can click on the department links to view a description of specific classes.
Electives by Department

- English
- Social Studies
- Science
- Math
- PE
- Business
- Teacher Academy of MD

- Music
- Dance
- Art
- PLTW Engineering
- Carpentry

Click on the Department links to learn about electives!
The Teacher Academy of Maryland “TAM” completer program prepares students for postsecondary education and careers in the field of education. The program focuses on teaching as a profession, and includes information on human growth and development, learning theory, and curriculum and instruction. Students participate in internship experiences that include exposure to multiple age levels and subjects. Students who complete the program may earn CCBC credits.
Teaching as a Profession

• Learn about profession of teaching – its history, purposes, issues, ethics, laws and regulations, roles, and qualifications.

• Students will identify the current, historical, philosophical and social perspectives of American education, including trends and issues.

• Students will observation teaching strategies by visiting classroom
Child & Adolescent Development

• Students will study human development from birth through adolescence.
  • Physical Development
  • Cognitive Development
  • Psychosocial Development

• Students explore special challenges to growth and development.

• Students will have opportunities for guided observation of children from birth through adolescence in a variety of settings to help students further understand theories of human development.
Successful completion of this Completer will certify you with the National Center for Construction Education and Research (NCCER).

Students completing the program successfully are eligible for advanced placement in first year apprenticeship in the Associated Builders and Contractors (ABC) Apprenticeship Program. They may also be eligible for advanced placement and/or testing opportunities through other union or non-union apprenticeship programs and/or receive college credit at CCBC.

Upon graduation students can enter employment, complete journeyperson apprenticeship, and/or earn a degree at a two-year or four-year college.

Students are encouraged to start in grades 9 & 10 and should plan to complete levels 1, 2, 3 & 4.

Carpentry 1  Carpentry 2  Carpentry 3  Carpentry 4
Carpentry 1

- Basic Communication Skills
- Basic Employability Skills
- Construction Math
- Introduction to Construction Drawings
- Basis Rigging

- Between each module, students will work on small hand tool projects such as Pinewood Derby cars, Intarsia, Bird Houses, Holiday gifts and possible school improvement projects as they arise.
Carpentry 2

- Basic Safety
- Material Handling
- Introduction to Hand Tools
- Introduction to Power Tools

- Students will participate in various construction activities such as erecting and dismantling scaffolding, climbing ladders, using hand and power tools in a work-like atmosphere.
Carpentry 3

- Orientation to the Trade
- Building Materials, Fasteners and Adhesives
- Hand and Power Tools
- Introduction to Construction Drawings, Specifications and Layout

This level of carpentry will fine-tune the use of tools and enhance understanding of blueprints and what is needed to construct a building.
Carpentry 4

- Floor Systems
- Wall Systems
- Ceiling Joist and Roof Framing
- Introduction to Building Envelope Systems
- Basic Stair Layout

At the end of this level, students will have the information needed to frame a house!
English Electives

- Creative Writing (.5)
- Advanced Creative Writing (.5)
- Journalism
- Theater
- Film Appreciation Honors

Click on the course names for more information!
Creative Writing & Advanced Creative Writing

In Creative Writing, you will explore a wide variety of creative writing opportunities. Independent work is expected and students have autonomy in how and what they will write. A strong sense of independence is valued but not required. All types of fiction can be addressed from poetry to plays to short fiction.
Journalism

Ready to learn fundamentals of reporting and writing along with the legal and ethical obligation

- Become a writer or editor for the *Aquila Eye* newspaper

- This is a writing course and students will be required to write articles and take photographs.

Back to English Electives
Theater

Theater 1 – Explore all aspects of theater arts from acting, improvisation, theater history, writing plays and collaborative scenes.

Theater 2 – In depth exploration of Theater movement, voice acting, monologue/auditioning, Shakespeare acting and a full performance of a play.

Theater 3 & 4 – In-school acting company that puts on in-school and travelling performances of devised and written productions.

Back to English Electives
Film Appreciation Honors

Film Appreciation and Analysis is an introduction to film as a contemporary art form. It emphasizes close observation and analysis of essential film language. Screenings for this course include a broad range of films and film excerpts representing different time periods, cultures, and cinematic traditions. Students who complete this course will have a deeper understanding and appreciation of movies.

This is an honors level class. Independent work is expected both in and out of class.
Social Studies Electives

- Juvenile Justice (0.5)
- History Through Sports (0.5)
- Psychology (0.5)
- Abnormal Psychology (0.5)
- AP Human Geography
- AP Psychology

Click on the course names for more information!

Back to Departments
This course will help students develop successful patterns of behavior by making them more aware of what triggers conflict and confrontation. Juvenile Justice will improve understanding of legal terminology, provide a greater sense of self-awareness and understanding of rules, and increase skills of communication. Students will analyze the purposes and consequences of the differences between the juvenile and adult legal systems. While examining issues and problems which affect our society, students will develop a sense of citizenship and responsibility.
History Through Sports

• You will study US history through sports and look at how sports influenced minorities, women, the cultural thoughts of that time.

• You will also learn about current issues related to sports, such as substance abuse, the status of athletes and money.
Psychology (.5)

This is a study of human behavior, examined within the context of the behavioral sciences of psychology and sociology. Fundamental to this course is a focus on identity development, schools of psychology, normal and abnormal behaviors, and treatment. Students are afforded opportunities to consider and apply findings of psychological research toward understandings of the dynamics of human behavior.
Students define and **analyze abnormal behavior** from a variety of perspectives. The major types and ranges of abnormal behavior are examined in detail, with special emphasis on causation and symptoms. The course culminates with analysis of treatment approaches and their respective techniques.
AP Human Geography

This course is designed to prepare students to take an AP test for college credit. Students will conduct in-depth analysis of the causes and consequences of human interactions with their physical surroundings. Course content will be based on demands of the AP test and processes required for success on the examination, such as the languages, religions, culture, agricultural practices, economic development, urban planning, gender roles, migration, and population growth of countries around the world.
AP Psychology

This course is designed to prepare students to take an AP exam for college credit. Students will analyze the approaches, methods, and applications of psychology. There is a special emphasis on physiological processes and resulting impacts on human behavior. Course content will be based on demands of the exam and processes required for success on it.
Science Electives

- Forensics Honors
- Paramedical Biology
- Anatomy & Physiology
- AP Environmental Science
- AP Biology
- AP Chemistry
- AP Physics 1

Click on the course names for more information!

Back to Departments
FORENSIC SCIENCE

WHAT IS FORENSIC SCIENCE?
CLICK ON THE VIDEO BELOW TO FIND OUT

THE REAL SCIENCE OF FORENSICS

EXPLORE THE BCPS FORENSIC SCIENCE CURRICULUM:
https://www.bcps.org/offices/science/forensics.html

Back to Science Electives
Anatomy and Physiology provides a comprehensive overview of human body systems and stresses both the structure (microscopic and macroscopic) and functioning of those systems. Research using original articles, historical papers, and other resources are required. A project or term paper may also be required.
Paramedical Biology

• 1 Credit Science Elective

• Course of Topics: Being a first responder, stress, legal and ethical issues, and well-being of the first responder, the human body, disease, illness, airway management, cardiovascular disease/stroke, heart attack/CPR, AED’s, bleeding, shock, trauma, bone and muscles, splinting, head, neck, spine, chest injuries, patient assessment, medical emergencies, altered mental states, epilepsy, nervous system, environmental emergencies, poisonings, behavioral emergencies, special situations, triage.
AP Environmental Science

• **Goals for the Class:**

• 1) explain how humans interact and change the environment.

• 2) Prepare students for the AP Exam in May.

• 3) Help prepare students for college.

• The AP Environmental Science course provides students with hands on investigations that explore the interrelationships of the natural world, identify and analyze natural and man made environmental problems and explain solutions.
AP Biology

- This is a 2 period class (we meet every day)
- Curriculum follows the following big ideas:
  - 1. The process of evolution drives the diversity and unity of life.
  - 2. Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis.
  - 3. Living systems store, retrieve, transmit and respond to information essential to life processes.
  - 4. Biological systems interact, and these systems and their interactions possess complex properties.
- Course includes frequent labs as they are required as part of the AP exam.
AP Chemistry

- AP Chemistry is one of the most challenging science courses you will take. Be prepared to work, learn, and have a little fun! Students are expected to do pre-reading prior to class. Lecture time is spent making connections through discussion and manipulation of appropriate calculations. Students are expected to do basic introductory problems, so that class time is devoted to understanding laboratory concepts and mastery of material, rather than introduction of concepts. A significant amount of class time is devoted to learning how to approach calculations and sample AP problems. Students are expected to present any work from the lab or homework to the class, in a clear understandable manner. I have 2 main purposes in everything we do in this class: (1) You learn chemistry in safe environment and (2) You are prepared for the AP chemistry exam in May. I will reiterate...Be prepared to work!
Have you ever asked seeming impossible to answer “HOW COME” questions? Things like: Why’s the sky blue (except before sunset when it’s red)? If Earth’s spinning us around the equator at 1,034 mph, why isn’t there a ferocious wind in our face and why aren’t we terribly dizzy? How come it looks like there’s water on a hot roadway in the summer? Why does time go a little slower on the Sun, and faster on the moon? A wet towel snaps in midair, and creates a sonic boom ... how come? Discover the answers to many of your “how come” questions, as we gain an understanding of nature, the universe, and technology at the most fundamental scientific level....Physics!
Math Electives

• **What does your teacher recommend for you?**
  - Counselors will put you in your recommended math course unless there is a signature from your current math teacher on your registration form.

• **Honors or AP Statistics**

  Click on the course names for more information!

Back to Departments
What do we talk about in Statistics?

- Sports
- Medicine
- Court Cases
- Games of Chance
- Surveys
- Experiments
- Poetry
- Fantasy Sports
- Businesses
- Commercials….

It is a FUN course!!

Back to Departments
Physical Education Electives

- Team Sports: Intro (.5) and Advanced (.5)
- Weight Training: Intro (.5) and Advanced (.5)
- Body Conditioning: Intro (.5) and Advanced (.5)

Click on the course names for more information!
Team Sports

- This *Physical Education elective is for students wishing to continue developing their athletic skills.
- Skill development included in playing time.
- Not just basketball... We play other games too!
- All are welcome!!!

*This course does not meet the PE graduation requirement! You must complete PE Fitness & Mastery before taking this course.
Body Conditioning

• This *Physical Education elective is for the student interested in personal fitness.

• Students will participate in cardio, weight training and other physical activities

• This class does not focus on sports, it is all about individual fitness (there will be some sports activities)

*This course does not meet the PE graduation requirement! You must complete PS Fitness & Mastery before taking this course.
This course is intended to teach students the basic concepts for weight training.

Students will work individually and in small groups to improve their overall muscular strength, muscular endurance, cardiovascular endurance and body composition.

Students will learn how to lift safely and correctly, how to design an effective weight training program, and the different muscles of the body and the purposes they serve.

*This course does not meet the PE graduation requirement! You must complete PE Fitness & Mastery before taking this course.*
Business Electives

Business Education Courses are designed to develop **workplace** and **life skills** and/or enrich and complement skills needed for success in achieving a **college degree**.

**Business education is for anyone who...**

- Will work in the US or global economies
- Will lead a group of people
- Will handle or operate financials of a business
- Will be part of the workforce
- Will go to college

Business education is for EVERYONE not only those interested in business. **BUSINESS IS ALL AROUND US!**

GO TO THE NEXT SLIDE!
There are 3 Business Options:

**Business:**
Marketing or Management

- Principles of Business
- Accounting I
- Marketing I
- Adv Bus Mgmt
- Marketing II
- Business Capstone

**Computer Science**
- Foundations of Comp Sci
- AP Comp Sci Principles
- AP Comp Sci A
- Linux/CCBC/Internship

**College & Career Research**
- Intro
- Advanced
- Work Study

Back to Departments
Principles of Business

Learn the basics of Business:

This course provides a foundational understanding of the role of business in a global society, American business as a dynamic process, forms of business ownership, management concepts, marketing, production and distribution, and accounting and finance.

This is the first of the Business courses, it MUST be taken BEFORE any other business course.

Back to Business Options
Accounting I

Learn the Language of Business!

Provides students with knowledge necessary to manage and maintain a company’s financial resources in daily operating decisions.

This is the second Business class, it MUST be taken BEFORE Marketing or Adv Business Management

Back to Business Options
Advanced Business Management

This course provides students with the knowledge that will prepare them for post-high school levels of education and entry-level positions in the work force. In depth understanding of local and global businesses.

Business Capstone

The Capstone project is a personally-designed independently conducted activity which enables you to further your knowledge/skill in one or more of the course topics which you have found or believe to be especially interesting or beneficial to you.

Back to Business Options
introduces the student to the essential concepts of marketing theory required to provide the goods and services to meet the consumers’ wants and needs. Students will be introduced to the foundations, functions and benefits of marketing in a free enterprise system. Consumer buying behavior and relationships will be analyzed and understood.

The Advanced course builds on all of the concepts studied in Introduction to Marketing by giving the students in-depth, comprehensive project-based learning opportunities.
The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

The course emphasizes object-oriented and imperative problem solving and design using the Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.
This course is designed to provide students with a learning experience equivalent to that of an introductory college course in computer science. AP Computer Science A emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and includes the study of data structures, design, and abstraction. The AP Computer Science A course is compatible with those topics that are covered in a typical college CS1 course.

Linux/CCBC Course/Internship

Students in this completer can choose to take Linux, a CCBC course or arrange an Internship to finish this completer.
This course provides students with instruction in Maryland’s Career Development Framework, including self-awareness, career awareness and exploration, workplace readiness, and financial literacy. Students will begin a portfolio to document their career goals, skills, interests, and pathway planning.

Advanced College & Career Research and Development

This course requires students to apply their career development knowledge to further their career preparation. The course explores all aspects of a career, including transitions, advancements, and job satisfaction. Advanced financial literacy, including personal budgeting is taught. Students continue to develop their portfolios. Advanced CRD is recommended to be taken concurrently with Work-Based Learning Experience to provide the opportunity for students to apply classroom learning in a workplace setting.
This course requires students to apply their career development knowledge to a work experience in a career area of their choice. Students’ skill development is measured by an individualized learning plan and related reflections. Emphasis is placed on workplace readiness skill development. Some students may become registered as apprentices. The completer requires two credits of work-based learning.
Dance Electives

- Dance 1
- Dance 2
- Dance 3
- Dance 4

Click on the course names for more information!

Back to Departments
Dance 1 (Introductory)

This is an introductory movement course in the fundamentals of ballet, modern, and jazz. Hip-hop and tap are also included in instruction. Each unit of study includes dance technique, history, anatomy, written/reading assignments, in-class evaluations, and a county-wide final exam.

Please note:

• Students have to purchase and change into dance attire for every class which consists of a black leotard and tights.

• All black movement/athletic attire is acceptable until the proper uniform can be purchased.

• Students are required to perform in the Dance Showcase in April as part of the course.
Dance 2 (Beginning)

This course builds upon the fundamentals learned in Dance 1 with more intricate and advanced movement and instruction. Units of study include ballet, modern, jazz, hip-hop, tap, and other styles. There is further instruction in cultural and social forms, history, anatomy, improvisation, and composition. Students will have written/reading assignments, in-class evaluations, and a county-wide final exam.

Please note:

• Students must have successfully completed Dance 1, or students may audition directly into Dance 2 with two or more years of formal dance study, and by passing an audition with the dance teacher, Mrs. Collins. There is an expectation of prior dance knowledge and training to be eligible for this course.

• Students have to purchase and change into dance attire for every class which consists of a black leotard and tights.

• Students are required to perform in the Dance Showcase in April as part of the course.
Dance 3 (Intermediate)

This course continues to build upon the work in ballet, modern, and jazz techniques. Students will begin to focus on the development and refinement of performance skills. Anatomy, dance history, improvisation, and composition will enrich the course of study. Twentieth century theatrical and social dance will be explored experientially and historically. Students will have written/reading assignments, in-class evaluations, and a county-wide final exam.

Please note:

• Students must have successfully completed Dance 2. There is an expectation of substantial prior dance knowledge and training to be eligible for this course.

• Students have to purchase and change into dance attire for every class which consists of a black leotard and tights.

• Students will have required performances throughout the year.

Back to Dance Electives
Dance IV is an intermediate/advanced course offered to students interested in progressing to an advanced level and gaining more performance experiences. Further development in ballet, modern, jazz, and historical, cultural, social forms is correlated with a concentration on performance. Students will have written/reading assignments, in-class evaluations, student/teacher assessments, a mid-term, and final exam.

Please note:

• Students must have successfully completed Dance 3. There is an expectation of substantial prior dance knowledge and training to be eligible for this course.

• Students have to purchase and change into dance attire for every class which consists of a black leotard and tights.

• Students will have required performances throughout the year.
Music Electives

- Music & Audio Technology
- Concert Choir
- Chorale
- Guitar 1
- Guitar 2, 3, 4 (Honors and GT)
- Piano 1
- Piano 2, 3, 4 (Honors and GT)
- Symphonic Orchestra Honors/GT
- Symphonic Winds Honors/GT (Band)
- Percussion Ensemble Honors/GT
- AP Music Theory

Click on the course names for more information!

Back to Departments
Want to learn more about the music business and music production?

Want to learn more about composing music digitally?

In this course students will learn about digital music composition and production. Units of study include basic music theory and piano keyboard skills, music production, multi-track recording, manipulating audio clips, sampling and sequencing, the musical elements and characteristics of popular musical genres, and sound mixing.

This course is open to all students with no prior music classes required. However, please note that to successfully complete the course you must master basic music theory, including reading music, and basic piano keyboard skills.
Concert Choir

This choir is open to everyone, regardless of previous musical experience. Through the study and performance of vocal repertoire students will develop and refine basic skills such as tone production, diction, rhythm reading, pitch recognition, breath support, and sight-singing.

Please note:

• Reading music and singing are essential skills that are focused on heavily in this course.

• Demonstration of these skills through performance is required to show growth and mastery throughout the course.

• Participation in 4 quarterly performances throughout the school year are required as a performance expectation of this course.

Back to Music Electives
This is a select singing group for students who have a fundamental background in singing, reading music, and who have the permission of the choir director. Enrollment is open to students in any grade but must be completed during the registration process.

Students will develop and refine singing skills including tone production, diction, rhythm reading, pitch recognition, and sight-singing through the study and performance of advanced vocal repertoire.

Please Note: Participation in multiple performances throughout the year are required as a performance expectation for this course, including participation in the BCPS Music Assessments in March.
Want to learn how to play the guitar?

This course is open to any students, regardless of previous musical background. In this course students will learn the fundamentals of reading music and guitar performance. Skills include performing basic chord songs, interpreting chord diagrams, reading tablature, reading standard music notation, basic music theory, and proper performance technique. Students will perform songs from a variety of genres including classic and contemporary rock, and popular songs, among others.

Please note:

• There is a guitar fee to cover consumables for this course such as guitar strings, supplies, and maintenance of the instruments.

• Students do not need to own a guitar. The school will provide one for classroom use. At certain times students will also be allowed to sign out a guitar to bring home for further practice.

Do you already play the guitar or read music fluently? Great! See Mrs. Smith to set up an audition and skills assessment to move directly into Guitar 2!
Guitar 2 Honors and GT Guitar 3&4

Students will continue to build upon the fundamentals learned in Guitar 1. Instruction will also include composition and improvisation in addition to further refinement and mastery of guitar skills, as well as a more in depth study of music theory. In this course students will have more independence and choice in repertoire. Successful completion of Guitar 1 is required, unless students pass an audition and skills assessment with Mrs. Smith.

Please note:

• Performance in the Guitar/Chamber Recital in the winter, and the Guitar Showcase in the spring is required as a performance expectation for this course. Additional performance opportunities will also be available throughout the school year, but are not required.
Piano 1

*Want to learn how to play the piano?*

This course is open to any students, regardless of previous musical background. In this course students will learn the fundamentals of reading music and piano performance. Skills include learning to read music on a grand staff (treble and bass clef), proper piano technique, reading chord symbols and progressions, basic music theory, and composition through the study of classical and traditional songs.

Please note:

- Students do not need to own a piano or keyboard. The school will provide one for classroom use.

*Do you already play the piano or read music fluently?* Great! See Mrs. Russell to set up an audition and skills assessment to move directly into Piano 2!
Students will continue to build upon the fundamentals learned in Piano 1. Instruction will focus on further refinement and mastery of piano skills, as well as a more in depth study of music theory, composition, and improvisation. In this course students will have more independence and choice in repertoire. Successful completion of Piano 1 is required, unless students pass an audition and skills assessment with Mrs. Russell.

Please note:

• Performance in the Piano/Chamber Music Recital in the winter, and the Piano Recital in the spring is required as a performance expectation for this course. Additional performance opportunities will also be available throughout the school year, but are not required.
Symphonic Orchestra Honors/GT

Students who play the violin, viola, cello, or string bass are eligible for orchestra! This is an honors level course with a GT option for interested students. Students must be able to read basic music notation and have been a part of a string ensemble in the past.

• The orchestra has earned Superior Ratings in 6 of the last 8 years at BCPS Music Assessments!

• If you do not own your instrument the school will provide one for you.

• There are 5 required performances a year including department concerts, BCPS Music Assessment, and Graduation. Other optional performance opportunities are available.
Symphonic Winds Honors/GT (Band)

Students who play any wind band instrument are eligible for this band course! This is an honors level course with a GT option for interested students. Students must be able to read basic music notation and have been a part of a concert band in the past.

• If you do not own your instrument the school will provide one for you.

• There are several required performances a year including department concerts, Pep Band performances, and BCPS Music Assessments. Other optional performance opportunities are available.

• Students are expected to purchase the proper all black concert attire to wear at all performances, as well as their pep band shirt.

Note: If you are a drummer do not sign up for this course! Percussion Ensemble is for you!

Back to Music Electives
Do you play the drums? Are you a percussionist? Can you read music well and already play another instrument but want to switch to percussion?

Percussion Ensemble is for any student who has previously been a member of a concert band percussion section, or for a student who wants to switch to percussion and can already read music fluently and play one other instrument. The ability to read music is a requirement! This is an Honors level course with a GT option for interested students. Students will learn all the percussion instruments such as mallets, drumline, and concert percussion instruments and accessories. Units of study include technique, composition, improvisation, repertoire/music literature study, and performance.

• This is the busiest performing ensemble in the music department with several required and optional performances throughout the year including department concerts, BCPS Music Assessments, Pep Band, Graduation, the BCPS Marching Band Showcase, the Percussion Showcase, and many others.

• Students are expected to purchase the proper all black concert attire to wear at all performances, as well as their pep band shirt and drumline attire.
This is an Advanced Placement course open to juniors and seniors who want to learn more about the mechanics of how music is written. The course focuses on a higher level of theoretical music training. Units of study include intense focus on musical elements, music reading and notation, ear training, keyboard skills, sight-singing, harmony, analysis, and composition. There is a significant amount of in school and home practice required to master the content.

Please Note: Regular analysis and composition assignments will be assigned as well as weekly sight-singing assessments.

See Mrs. Smith for more information, a skills assessment, and sample summer work.
Art Electives

- **Fundamentals of Art** – prerequisite for ALL art classes!
  - Intermediate Art
  - Studio Art
  - AP Studio Art
  - Photo 1 & 2
  - Photo Studio
  - AP Photo Studio
  - Design in Clay 1 & 2
  - Design in Clay 3 (Mixed Media/Sculpture)
  - AP Design in Clay (Mixed Media/Sculpture)
  - Digital Arts
  - AP Art History (online)

Click on the course names for more information!
This is the gateway art course that is required as a prerequisite before you can take any other art classes at OMHS.

Students will develop the foundational skills needed to communicate ideas visually, while developing understandings about the contributions of various artists to their cultures. Emphasis is placed on observational drawing and exploring composition and design in the art of various cultures using **drawing**, **painting** and **3D media**. Students will gain experience with a variety of media and skills as well as art analysis and critique.

Please Note:

• Students are required to purchase a sketchbook for this course.
Intermediate Art

This course provides opportunities for students to refine the basic skills developed in Fundamentals of Art. Students will study and critique artistic styles and apply that knowledge in their own work. Students will continue to work with a variety of classic mediums as they begin to develop their own personal style of art and expand imaginative and creative ideas.

- Students are required to purchase a sketchbook for this course.
- There is a studio fee for this course to help cover consumable art materials for the student.

Prerequisite Course: Fundamentals of Art
This course is the next step after Intermediate Art. Students will continue to develop the art skills acquired in previous arts courses and demonstrate their mastery at a high level of expectation and rigor. In this course emphasis is placed on preparing a personal art portfolio that reflects the development of the artist's personal style and/or artistic focus. Students will have opportunities to develop depth, breadth, and quality in creating artworks through investigating ideas and art problems, while exploring a variety of media. Students taking this course for AP credit will submit their portfolio to the AP College Board for review.

• Students are required to purchase a sketchbook for this course.

• There is a studio fee for this course to help cover consumable art materials for the student.

Prerequisite Courses: Fundamentals of Art, Intermediate Art
Photography 1 & 2

Photo 1 & 2 are semester long courses where students will have the opportunity to learn the basic processes and techniques of photography, such as film processing and composition of photographic images. During this course students will study master artists, evaluate and critique artworks, and collaborate with peers to work on projects. Students will work with both 35mm cameras and digital cameras during this course.

• Students are required to purchase a sketchbook for this course.

• There is a studio fee for this course to help cover consumable art materials for the student.

Prerequisite Course: Fundamentals of Art

Back to Art Electives
In this course students will continue to develop and refine skills learned in Photo 1 and 2. This is a full year course. Emphasis will be on composition, advanced darkroom film processing techniques, and the processing and presentation of artwork. In this course emphasis is placed on preparing a personal art portfolio that reflects the development of the artists personal style and/or artistic focus. Students will have opportunities to develop depth, breadth, and quality in creating artworks through investigating ideas and art problems. Students taking this course for AP credit will submit their portfolio to the AP College Board for review.

• Students are required to purchase a sketchbook for this course.

• There is a studio fee for this course to help cover consumable art materials for the student.

Prerequisite Courses: Fundamentals of Art, Photography 1 & 2
Design Clay 1 & 2

Design in Clay 1 & 2 are semester long courses where students will explore a variety of hand-building clay techniques using design criteria. Students will have opportunities to develop clay works through an analysis of past and contemporary collections, and apply their knowledge through design and creation. Throughout the course students will solve a variety of art problems in clay to reflect their own personal expression.

• Students are required to purchase a sketchbook for this course.

• There is a studio fee for this course to help cover consumable art materials for the student.

Prerequisite Course: Fundamentals of Art
Design in Clay 3 (Mixed Media & Sculpture)

Students will solve a variety of design problems to reflect personal expression. Students will study functional and non-functional artwork, and apply their knowledge to the creation of personal work reflecting a variety of purposes. The 3D medium is not limited to clay, as students will explore 3D creation and sculpture using a variety of mixed media. This is a year long course.

- Students are required to purchase a sketchbook for this course.
- There is a studio fee for this course to help cover consumable art materials for the student.

Prerequisite Courses: Fundamentals of Art, Design in Clay 1 & 2
AP Design in Clay (AP Studio Art 3D Design)

In this course students will continue to explore and develop and refine learned skills at a high level of expectation and rigor. This is a full year course. Students will have opportunities to develop depth, breadth, and quality in creating artworks through investigating ideas and art problems. The 3D medium is not limited to clay, as students will explore 3D creation and sculpture using a variety of mixed media. Students taking this course for AP credit will submit their portfolio to the AP College Board for review.

• Students are required to purchase a sketchbook for this course.

• There is a studio fee for this course to help cover consumable materials

Prerequisite Courses: Fundamentals of Art, Design in Clay 1 & 2, Design in Clay 3 GT (Mixed Media/Sculpture)
Digital Arts

This course provides opportunities in career exploration in the graphic arts field. Students will develop the ability to use technology for visual communication. Emphasis is placed on the following skills: drawing and design for illustration, advertising, and using graphic arts applications and software to create art digitally. Throughout the course students will learn to use software such as Photoshop and work on several large scale creative projects.

Prerequisite Course: Fundamentals of Art
Students will investigate art history through the ages, exploring how social and religious views influenced art, sculpture, and architecture. Through virtual field trips, students will visit online art displays, museums, and other locations to examine important works. Students will virtually explore works of art through observation, discussion, reading, and research. **This course is completed entirely online as an independent study.** The student is expected to initiative and maintain contact with the remote virtual schools teacher.

Prerequisite Course: Fundamentals of Art
Project Lead The Way “PLTW” Engineering

- **Introduction to Engineering Design** – prerequisite for all courses!
  - Principles of Engineering
  - Digital Electronics
  - Aerospace Engineering
  - Engineering Design and Development

Click on the course names for more information!
• **Principles of Engineering**
  - Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. In Principles of Engineering (POE), students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.
**Digital Electronics**

From smartphones to appliances, digital circuits are all around us. The Digital Electronics (DE) course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are use circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.
Aerospace Engineering

In Aerospace Engineering (AE), students are introduced to the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.
PLTW Engineering

• Engineering Design and Development
  – In Engineering Design and Development (EDD), students identify a real-world challenge and then research, design, and test a solution, ultimately presenting their unique solutions to a panel of engineers.
  – Prerequisites: Introduction to Engineering Design, Digital Electronics, Principles of Engineering, Senior status