

ADVANCED PLACEMENT & ESSENCE PROGRAMS

BOONSBORO HIGH SCHOOL 2018 – 2019

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**Boonsboro High School's
2018-2019 Advanced Placement & ESSENCE Programs**

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Boonsboro High School's Advanced Placement Program 2018-2019

AP & ESSENCE Mission Statement

To provide academically motivated and prepared students the opportunity to succeed in rigorous, college-level experiences.



AP & ESSENCE Guiding Principles

- Maintain high expectations as we provide students with a host of academic enrichment opportunities, through a rigorous approach to learning
- Foster the growth of a community of students and teachers who seek knowledge not merely for its practical applications, but also for the sheer joy of learning, knowing, and understanding
- Provide programs of study that use the interdisciplinary approach, while promoting inquiry and collaboration

All of our AP & ESSENCE teachers and their requisite courses have been through a rigorous course audit, and AP courses have subsequently approved by the College Board. Students earning an AP credit will receive the College Board designation on their transcript as well as weighted credits.

Boonsboro High School's Advanced Placement Program 2018-2019

Description of AP Student Characteristics

Advanced Placement students will be immersed in a rigorous, college-level classroom experience with certified College Board teachers who are passionate about their subjects and demonstrate continued commitment to meeting the needs of their pupils. With more personalized seminar style atmospheres and demanding expectations, students who follow the path of Advanced Placement will be fully prepared to face the challenges of four-year universities upon graduation.

While AP classes are open to all, it is recommended that AP students:

- Have a “B” average in the academic area of the respective AP course
- Possess the ability to think critically, synthesize, and apply information
- Are well organized
- Are intrinsically motivated and have a strong work ethic
- Have personal accountability (attendance / homework / self-advocacy)
- Have the ability to maintain focus
- Are willing to accept and act on constructive feedback
- Are passionate about their course
- Are willing to work collaboratively
- Will spend extra time to reach their goals

Reasons to sign up for AP:

- Earn college credit in high school
- Make your high school transcript more appealing to colleges
- Learn the skills necessary to succeed at competitive four-year universities
- Challenge yourself and make yourself proud

Translation of AP Exam Scores to College Credits

How do you determine what earns college credit?

Most colleges and universities offer college credit and/or placement in a high level course for AP Exam scores of 3 or higher. To find out what consideration is given to AP, enter a school name in the search bar at this College Board website:

<http://collegesearch.collegeboard.com/apcreditpolicy/index.jsp>

A few area schools are highlighted on the following pages; please note that the course credit information provided is not comprehensive. Follow the above link for more information.

Frostburg State University



AP is considered in the college admissions process AP Credit and Placement Policy

- Offers credit for AP Exams: Yes
- Offers placement into higher-level courses for AP Exams: Yes
- Students who take the AP exam and score a 3 or above will earn credit towards their Frostburg State University degrees and be able to begin study in the subject area at a higher level.
- Students can reduce time-to-degree and cost by starting full time study with credits already earned (a few examples are noted in the table below).

AP Course	Exam Score	Credits Earned	FSU Course Credited
Biology	3	8	BIOL 149, 150
Calculus BC	3	4	MATH 236
	4	8	MATH 236, 237
Human Geography	3	3	GEOG 104
Language	3	4	ENGL 101
	5	4	ENGL 111
Literature	3	4	ENGL 101
	4	6	ENGL 101, 150
Statistics	3	3	MATH 209
Studio Art (portfolio)	3	3	ART 104 or 212
US History	3	6	HIST 103, 104

Hagerstown Community College

AP Credit and Placement Policy



- Offers credit for AP Exams: Yes
- Offers placement into higher-level courses for AP Exams: Yes
- Hagerstown CC believes students should have the opportunity to receive college credit for what they presumably already know--The AP Program provides an excellent means of validating such learning.
- Minimum acceptable AP Exam score for college credit is 3 (some examples are noted in the table below).

AP Course	Exam Score	Credits Earned	HCC Course Credited
Biology	3	4	BIO 101
Calculus AB	4	4	MATH 203
Calculus BC	3	4	MATH 203
Environmental Science	3	3	BIO 111
Government	3	3	POL 101
Human Geography	3	3	GEO 102
English Language	3	3	ENGL 101
English Literature	3	3	ENGL 101
Music Theory	3	3	MUS 101
Physics B	3	4	PHY 201
Psychology	3	3	PSY 201
Statistics	3	3	MATH 109
US History	3	3	HIST 201

Hood College Frederick, Maryland



AP is considered in the college admissions process

AP Credit and Placement Policy

- Offers credit for AP Exams: Yes
- Offers placement into higher-level courses for AP Exams: Yes
- Credit will be awarded for AP scores of 4 or 5 in the following subject areas: Art History, Biology, Chemistry, Computer Science, Economics, English Literature and Composition, English Language and Composition, Environmental Science, Human Geography, US History, Mathematics, Music Theory, Physics, Government and Politics, Psychology and Studio Art.

Shepherd University Shepherdstown, West Virginia



AP is considered in the college admissions process

AP Credit and Placement Policy

- **Offers credit for AP Exams: Yes**
- **Offers placement into higher-level courses for AP Exams: Yes**

AP Course	Exam Score	Credits Earned	FSU Course(s) Credited
Calculus AB	3	4	MATH 129
	4	8	MATH 236, 237
English Literature	3	3	ENGL 131
	4	6	ENGL 131, 132
Physics	3	4	PHYS 101
	4	8	PHYS 101, 102
Psychology	3	3	PSYCH 101
World History	3	6	HIST 179, 180

Shippensburg University of Pennsylvania



AP is considered in the college admissions process

AP Credit and Placement Policy

- **Offers credit for AP Exams: Yes**
- **Offers placement into higher-level courses for AP Exams: Yes**
- **Students that complete AP courses while in high school are encouraged to take the Advanced Placement Examinations and receive college credit.**

University of Maryland: College Park



AP is considered in the college admissions process

Students are encouraged to challenge themselves by enrolling in advanced level classes where appropriate. Students may earn up to one year's worth of credit in many subjects for scores of 4 and 5 on the AP exams. AP coursework is viewed favorably in the admissions process and is generally viewed as excellent preparation for college work.

AP Credit and Placement Policy

- Offers credit for AP Exams: Yes
- Offers placement into higher-level courses for AP Exams: Yes
- University of Maryland encourages applicants to seek AP credit so that academically successful students may move forward in their programs at an appropriate pace. However, credit is not granted for all exams, and departments retain the right to adjust AP credit for the best success of their students. (A few examples are noted in the table below).

AP Course	Exam Score	Credits Earned	UM Course(s) Credited
Biology	4	8	BSCI 105, LL Elective
Calculus BC	4	8	MATH 140, 141
Government	3	3	GVPT 170
Human Geography	4	3	GEOG 102
Language	3	3	LL Elective
	4	3	ENGL 101
Literature	3	3	LL Elective
	4	6	LL Elective, ENG 240
Physics	4	8	PHYS 121, 122
Statistics	4	3	STAT 100
US History	4	3	HIST 156 or 157
	5	6	HIST 156, 157



AP Credit and Placement Policy

- Offers credit for AP Exams: Yes
- Offers placement into higher-level courses for AP Exams: Not reported
- WVU encourages students to work to their full capacity and to earn their degree at their own learning speed. As a high school junior or senior, they can take college level courses at their school in conjunction with the CEEB. The AP chart located on the web site shows the subject areas, necessary test scores and the WVU equivalent courses (a few examples are noted in the table below).

AP Course	Exam Score	Credits Earned	FSU Course Credited
Calculus AB	3	4	MATH 129
	4	8	MATH 236, 237
Literature	3	3	ENGL 131
	4	6	ENGL 131, 132
Physics	3	4	PHYS 101
	4	8	PHYS 101, 102
Psychology	3	3	PSYCH 101
Studio Art (portfolio)	3	3	Art 102 or 213
World History	3	6	HIST 179, 180

Boonsboro High

Advanced Placement Course Descriptions

AP Biology

Mrs. Burley burlecon@wcps.k12.md.us

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions.

PREREQUISITE

Students should have successfully completed Honors Biology and Honors Chemistry.

Inquiry-Based Investigations

Twenty-five percent of instructional time is devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.

AP Calculus AB/BC

Ms. Steiner steinkel@wcps.k12.md.us

COURSE OVERVIEW

Calculus was invented to help solve problems in physics and astronomy dealing with motion and change. It has developed into a far-reaching mathematical discipline, which includes applications in business, engineering, economics, life sciences, and even the physics of sports. These courses follow the curriculum specified by the College Board. In Calculus AB, students have the opportunity to informally investigate the central ideas of calculus such as limit, the area under a curve, the rate of change, and the slope of a tangent line to a curve. Calculus BC extends students understanding of differentiation and integration techniques to parametric and polar functions, vectors, and series.

COURSE REQUIREMENTS

It is expected that students will take either the AP Calculus AB or AP Calculus BC exam in May. Students will be active participants in their learning. Student work on tests, quizzes, and homework is expected to provide clear evidence of the student's knowledge of the objectives. Homework will be assigned daily and must be completed in a timely manner to promote understanding of the concepts. It is the responsibility of the student to keep current on all assignments. Students will be required to have access to a TI-83 or TI-84 graphing calculator, which will be used frequently in class and at home. Student grades will be determined by quizzes, tests, homework, and class work. Some tests will be given on which the use of a calculator is prohibited. This is to prepare students for the calculator inactive section of the AP test. Students will spend two to three weeks preparing for the AP Exam. During this time students will be interconnecting and reviewing concepts. If you are recommended for this course you can be successful!

AP Chemistry

Mrs. Spithaler spithshe@wcps.k12.md.us

AP Chemistry is an introductory college-level chemistry course. Students will deepen their understanding of chemistry by developing advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical concepts and connecting concepts across a variety of topics. Most of class instructional time will consist of collaborative hands-on labs. Students will investigate the following topics: atomic theory, transformations of matter, gas laws, reaction rates, thermochemistry, equilibrium and electrochemistry.

PREREQUISITES

Students should have successfully completed Honors Chemistry and Algebra II.

COURSE EXPECTATIONS

The course level expectations are high. Students will need to be self-disciplined and focused to meet required deadlines. Some types of required assignments are:

- Summer Assignment
- Use Online Textbook and Assignments
- Class Discussions and Notes
- Hands-On Inquiry Labs

	Computer Science A	Computer Science Principles
What it's about	The fundamentals of programming and problem solving using the JAVA language.	The fundamentals of computing, including problem solving, working with data, understanding the Internet, cybersecurity, and programming.
Goals	Developing skills for future study or a career in computer science or other STEM fields.	Broadening your understanding of computer science for use in a diversity of majors and careers.
The Exam	<ul style="list-style-type: none"> ▶ One end-of-year exam: multiple choice and free response. 	<ul style="list-style-type: none"> ▶ Two projects during the course. ▶ One end-of-year exam: multiple choice.

* Students are advised to take CSP before taking CSA.

AP Computer Science Principles

Mr. Baker bakerjus@wcps.k12.md.us

CSP is designed as an introductory course to computer science. The course covers the basics of programming and various computing technologies. Students will have a basic understanding of how email, encryption, and the internet work. Students will complete most work with a partner or in a group.

The AP assessment for this course includes two projects completed throughout the year in class and a multiple-choice test in May. The first project is an exploration of a computing innovation (Bitcoin, Autonomous Cars, 3D Printing, AI, SnapChat, etc.) chosen by the student. The second project is writing a computer program. The course focuses on Python as the programming language, but students may choose any language for their submission.

AP Computer Science A

Mr. Baker bakerjus@wcps.k12.md.us

Students in this course will learn the Java programming language through extensive labs and partner work. The end of year exam has 40 multiple choice questions and 4 free response questions. This course focuses primarily on objects and classes. It is assumed students in this course have taken either Foundations of Computer Science or AP CSP or have knowledge of programming logic. CSA is designed to be an introductory course to Object Oriented Programming.

AP English Language and Composition

Mrs. Clayton claytamy@wcps.k12.md.us

Mrs. Ours ourscyn@wcps.k12.md.us

Ms. Salka salkatra@wcps.k12.md.us

Most people view AP Language as primarily a writing class; although this is true, it is also a critical thinking and reading course. The way we approach text in AP Lang is very different from what most students are used to doing because we focus on how writers use the tool of language to achieve their purposes. In essence, we study the craft of writing and what makes good writing so effective. We analyze the rhetorical strategies employed by writers, we identify purpose and tone, and ultimately, we find ways to apply the same skills and strategies to our own writing. The course prepares students to be successful on the AP exam, but it also helps students to develop into strong critical thinkers and strong writers. In order to achieve that goal, the course is rigorous.

Students can expect:

- Required summer reading
- Frequent writing assignments (both timed essays and major papers)
- Independent reading
- Frequent group work, projects, and full class discussion

It is important that students enrolling in AP Lang:

- Are willing to think critically, take risks, ask questions, and (sometimes) be wrong
- Demonstrate responsibility, time management, and adaptability

Many students shy away from AP Lang because they are intimidated by the amount of work or they are scared that they cannot manage the workload. However, those who have accepted the challenge have found the experience both valuable and rewarding.

AP English Literature and Composition

Mrs. Spence spencjud@wcps.k12.md.us

Ms. Clingan clinglau@wcps.k12.md.us

COURSE DESCRIPTION: Advanced Placement English Literature and Composition is a college-level course that will provide opportunities for you to develop your ability to read critically, think clearly, and write concisely. During the year, you will read books that you have not had a chance to explore before, exchange ideas with your classmates about the ideas you

encounter in these books, and challenge the beliefs and ideas that you currently hold. You will have the opportunity to read some of the finest poetry, plays, novels, short stories, and essays ever written. You will refine your ability to discover meaning in literature by being attentive to the various techniques and strategies authors use to evoke emotional responses from readers. While preparation for the exam is certainly one of our goals in this course, it is not the primary, or even the most important goal. Our primary goal is to explore, learn, and grow intellectually and personally- together, while trying to earn college credit.

CLASSROOM ENVIRONMENT: The bulk of this course will be conducted in a seminar format. Note-taking and communication skills are vitally important for success in college and in life- just as those skills are important to your success in this course. Communication involves both speaking and listening. It is the student's responsibility to participate in the ongoing conversation that is this course. Also, students will be required to give various presentations and speeches, both individually and in groups.

EXPECTATIONS: Students must be self-disciplined. You are to be prepared each day with all assignments and materials. We expect determination and diligence from students and are looking forward to an enlightening year of shared discourse and exploration where we will welcome intellectual challenges, as well as have fun.

AP Language vs. AP Literature

"How do I decide?"

If you want to go on to college, especially a 4-year college, taking an AP English course is one of the best ways to prepare for the reading and writing expectations you will face. There are several paths you can take to incorporate AP English into your schedule. It is important to take a number of factors into account as you decide what is best for you. Remember that AP Lang and AP Lit have a lot of things in common.

Both courses:

- Require completion of summer assignments.
- Require challenging reading and frequent writing.
- Require critical thinking.
- Require independent work (including reading of novels/books on your own).
- Involve projects and class discussion.
- Will significantly improve your reading and writing skills.
- Will help you to be better prepared for college. Will help you to become more cultured and well-read.
- Give you the opportunity to earn college credit by preparing you for the AP Exam. (See examples of potential college credits on previous pages.)

If you will be a JUNIOR next year, you have the following options:

Course	AP Language	Honors English 11
Reason to take	You want to take BOTH AP English courses (take Lang as a junior and AP Lit as a senior)	You want to take an AP course, but you do not feel like you have strong enough English skills to do that yet. Select AP Lit or Lang as a Senior.

If you will be a SENIOR next year, you can choose between AP Language and AP Literature. The following chart is designed to help you select which would be a better fit for you:

Course	AP Language	AP Literature
If you need to develop...	-Writing Skills (especially structure, voice, ability to develop a point of view, ability to use sources to support a position) -Grasp of tone -Grasp of writer's purpose -Critical thinking	-Interpretive Skills (with literature, symbolism, character development, theme) -Poetry analysis skills -Ability to connect literature to history, biography, real world
If you prefer reading...	-Nonfiction -Historical texts -Philosophical texts -Personal Narratives (biography, autobiography, memoir)	-Fiction (novels, novellas, and short stories) -Drama -Poetry
If you like...	-Writing -History and philosophy -Class discussion -Argument and Debate -Defending your ideas -Thinking analytically	-Reading Novels -Poetry -Class discussion -Learning about writers -Critically analyzing literature
If you hope to study...	-Journalism -Law -History -Science or Engineering -Social Sciences (including Psychology) -Philosophy	-Literature -Humanities -Visual or Performing Arts -Psychology -Anthropology -Philosophy (including Theology)
If you do better with...	The nitty-gritty (Ultimately, in Lang, we analyze the way the writer crafts his work and how he conveys meaning. This in turn helps students to become better at crafting their own written work.)	The big picture (Ultimately, in Lit, we analyze the messages a writer conveys through his work and how those messages connect to the author himself, the time in which he wrote, or the reader today.)

If, after reading through this, you are still uncertain as to which course to take—or whether to take an AP course—please talk to one of the teachers and/or fellow students.

AP Environmental Science

Mrs. Segar segarreb@wcps.k12.md.us

Course Description: Advanced Placement Environmental Science is a college level course that uses scientific processes to explore environmental topics including energy transfer, ecological processes, interdependence of Earth systems, environmental problems, and human interaction.

Text: *Environmental Science for AP* Friedland and Relyea

Prerequisites: Biology or Honors Biology, Chemistry or Honors Chemistry, and Algebra II.

The Road To Success: In order to succeed in AP, students must be self-motivated; they will be expected to read, gather, and organize information from the textbook and/or other resource materials outside of class.

Class work: Students will spend the majority of their class time on laboratory or field investigations. Experiences both in the laboratory and in the field provide students with important opportunities to test concepts and principles that are introduced in the classroom.

The following is an overview of the concepts and principles we will cover:

- Earth Systems and Resources
- The Living World
- Populations
- Land and Water Use
- Energy Resources and Consumption
- Pollution
- Global Change

Students will also spend class time using online database systems, working through math problems, writing, reviewing, and revising sample free-response questions, watching films/documentaries, and using Accountable Talk strategies to discuss major concepts. After taking this course students should be able to explain/discuss the following statements. 1. Science is a process. 2. Energy conversions underlie all ecological processes. 3. The Earth itself is one interconnected system. 4. Humans alter natural systems. 5. Environmental problems have a cultural and social context. 6. Human survival depends on developing practices that will achieve sustainable systems.

Why take APES? 5 Reasons to Take AP Environmental Science

- 1) Variety: Environmental science intertwines all of the sciences (biology, earth science, chemistry, and physics) into one.
- 2) Practical Applications: Many sciences get a "bad wrap" because students believe they can never apply what they learn to real life. Environmental science offers "down to Earth" (no pun intended) ways to be more environmentally friendly with your lifestyle.
- 3) Career Opportunities: Environmental science is the foundation for tons of careers in the fields of water treatment, manufacturing, mining, oil & gas, agriculture, and so many more.

Almost any career path you are thinking of going into can benefit from environmental science.

4) Hands-On Learning: This class has been designed to teach you the student through hands-on labs and field trips. Too many classes are taught off PowerPoint. This class will be not another one of those type of classes.

5) Potential College Credit: Like other "AP" classes, at the end of the semester, you will have the opportunity to take the AP Environmental Science test. With a high enough test score (usually a 4 or 5) you will likely receive college credit for taking this course. Many colleges will offer credit once they see a student's lab book and syllabus to verify topics and rigor.

AP Music Theory

Micah Socks socksmic@wcps.k12.md.us

AP Music Theory is a year-long course specifically designed for students who plan to study music in college. This study can be a major, minor or elective study in music and is appropriate for ALL genres and fields in the music industry (e.g., performance, theatre, composition, business etc.).

Course study in music theory requires that the student be proficient on an instrument or voice. Students will study a wide variety of topics in music theory including music rudiments, voice leading, chordal analysis and composition techniques. Students who wish to take the course need a recommendation from either their school music teacher or a private instructor. Students who are NOT involved with Band, Orchestra, or Chorus are still invited and encouraged to enroll in this class. If you think you would like to take the class but are not sure, see Mr. Socks or Mrs. Wadding for more details.

The AP Music Theory exam has 3 components: Multiple Choice Section—This section includes questions based on listening examples as well as questions not based on listening examples. Written Free-Response Section—Is comprised of 7 separate dictations including 2 melodic dictations, 2 harmonic dictations, 1 part-writing exercise using figured bass, 1 part-writing exercise using Roman numerals and 1 composition of a bass line. Sight-singing—Students are expected to record 2 brief melodies when given in written form. The AP Music Theory test is extremely challenging but definitely worth the effort for any student who wants to pursue music post-graduation (either as a career or as a hobby).

AP Physics I

Mr. von Philp vonphral@wcps.k12.md.us

The AP Physics program is a course for highly motivated students with an interest in Physics, Math, and Engineering. AP Physics 1 is an algebra-based physics course, but students taking AP Calculus concurrently will find that the courses benefit one another. AP Physics 1 builds on concepts covered in Honors Physics with a greater focus on detail and depth of understanding in both content and lab investigations. Students will be prepared to take the AP Physics 1 exam at the end of the course. AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. In order to succeed in AP Physics students must be self-motivated; they will be expected to play an active role in their education.

A typical week of class will consist of lecture notes, lab activities, online activities, and the use of iPad apps. Homework will be assigned regularly and is frequently graded on accuracy. Many students ask “When will I ever use Physics?” and the answer is: Always! Even if you don’t go into math, science, or engineering, the thinking skills, reasoning skills, and logical approach to problem solving that you will learn and use in this class will help you towards whatever goals you may have. The value of learning how to think cannot be understated.

AP Physics 2

Mr. von Philp vonphral@wcps.k12.md.us

(AP Physics 1 is a prerequisite for AP Physics 2. But AP Physics 1 and 2 can be taken concurrently by highly-motivated students that wish to take both in the same school year.) AP Physics 2 builds on concepts covered in Honors Physics with a greater focus on detail and depth of understanding in both content and lab investigations. Students will be prepared to take the AP Physics 2 exam at the end of the course. AP Physics 2 is an algebra-based, introductory college-level physics course that explores principles of fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. In order to succeed in AP Physics, students must be self-motivated; they will be expected to play an active role in their education.

A typical week of class will consist of lecture notes, lab activities, online activities, and the use of iPad apps. Homework will be assigned regularly and is frequently graded on accuracy. Many

students ask “When will I ever use Physics?” and the answer is: Always! Even if you don’t go into math, science, or engineering, the thinking skills, reasoning skills, and logical approach to problem solving that you will learn and use in this class will help you towards whatever goals you may have. The value of learning how to think cannot be understated.

AP Spanish Language & Culture

Mrs. Hoppes hoppesha@wcps.k12.md.us

In today’s global community, competence in more than one language is an essential part of communication and cultural understanding. During their study of AP Spanish Language and Culture students will improve their ability to express thoughts and ideas for their own purposes and will be provided access to perspectives and knowledge that are only available through language and culture. Advanced language learning offers social, cultural, academic, and workplace benefits that will serve students throughout their lives. Students will demonstrate their proficiency in interpersonal, interpretive and presentational communication as they read and listen to authentic sources of the Spanish language. They will explore the Hispanic culture in both contemporary and historical contexts. The course is taught in Spanish and students communicate with each other and with the teacher in Spanish.

AP Statistics

Mr. Knight knighjoh@wcps.k12.md.us

Course Description

This course introduces students to four broad conceptual themes of statistics: exploring data, observing patterns and departures from patterns; planning a study, deciding what to measure and how to measure; anticipating patterns in advance, introducing probability and simulation; and statistical inference, confirming models for explanations of patterns. Throughout the course, students will work together in small groups to gain proficiency in the art of communicating statistical concepts. They learn the importance of writing a complete response using the appropriate methodology and terminology. They come to understand how methods, results, and interpretations of data are best communicated.

Assessment

There are several ways that assessment occurs. Daily assignments are given and checked for completion. Quizzes are given periodically. Tests are generally given with each chapter. County benchmarks (cumulative tests) are given four times throughout the course.

Expectations

Students are expected to read ahead, complete all assignments on time, and take the AP exam at the end of the year. Students will also need to be open-minded and willing to scrutinize how data is gathered.

Why Take Statistics?

Statistics is very rapidly becoming a required course for most majors beyond the basic math requirements. Statistics can be very difficult, and when taken in college, can be a daunting task. Even if you do not pass the exam, the concepts learned will make the college course much simpler. In addition to the collegiate advantages, learning how to gather and interpret data will make you a more discerning consumer, citizen and person in general. Activities used to collect data range from blind taste tests to tests of physical ability, which allow you to see how statistics can be used in everyday life.

AP United States Government and Politics

Mrs. Vascik vasciash@wcps.k12.md.us

A well-designed AP Course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret the US Government and Politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US Government and Politics. This course is not designed to be a refresher course for the Government class you already took, but an extension of what you learned. This course will focus on five units that will give a deeper understanding of the American Government. The five units of study include constitutional democracy; civil liberties and civil rights; American political culture and beliefs; political participation; and interaction among branches. Each unit is designed to give a comprehensive overview of a particular aspect of American Government. In addition, you will be asked to make connections across the various units of study.

As a college-level course, it is rigorous and demanding. This college-level course prepares students to take the AP United States Government exam. Students are expected to review their syllabus on a continuous basis and keep up with assignments and readings. Students are expected to come to class with an open mind and be prepared to participate in multiple

discussions with their peers in a respectful manner. Students are expected to complete the reading, research, writing, and AP exam prep on time. Students are expected to keep up with current events and connect them to classroom government content during regular current event assignments and discussion. Most importantly, students are expected to approach this course with a desire and motivation to succeed in this rigorous academically challenging environment.

AP United States History

Why study history? Historians' responses vary, yet always include a passion and spark. History is not just the study of a multitude of facts, people, wars, and dates, many of which seem to be forgotten once the discussion becomes silent. The ever-changing field of history is a fascinating journey of events that place an indelible mark on a generation and the people whose contributions continue to impact our lives today. This college-level course will allow students the opportunity to study United States history from the early inhabitants of the United States to our modern global society. As historians in the classroom, students will gain new and varying perspectives of our country's unique past while participating in collaborations with peers and taking part in multiple opportunities for research.

Expectations

Students are expected to review the syllabus on a continuous basis and keep up with assignments and readings. Students are expected to come to class with an open mind and be prepared to participate in multiple discussions and collaborations with their peers in a respectful manner. Students are expected to be aware of their learning goals and continue to look for ways to better understand the content by reviewing individually, with peers, in the weekly AP study group, and with me. Students are expected to complete the reading, research, writing, and AP exam prep on time. Most importantly, students are expected to take on the role of an historian by continuing to practice their reading, writing, note taking, and oral communication skills for the duration of the class.

Activities

Creating a portfolio that includes response papers, research, film analysis, cartoon analysis, and annotated bibliographies. Simulations Mock Trials Debates Reading of various primary sources. Research and more research. Web quests and internet scavenger hunts. Online blog discussions. AP Preparations – AP Study Group.

AP World History

Mr. Baran baranchr@wcps.k12.md.us

The purpose of AP World History is to gain understanding concerning global processes and contacts that occurred among different societies throughout time. This purpose is achieved by examining the world's changes and continuities, and cause/effect relationships.

The course will follow historical periods.

Period I: Technological and Environmental Transformations, 8000 B.C.E – 600 B.C.E.

Period II: Organization of Human Societies, 600 B.C.E. – 600 C.E.

Period III: Regional and Interregional Interactions, 600 C.E.-1450

Period IV: Global Interactions, 1450 – 1750

Period V: Industrialization and Global Integration, 1750 – 1914

Period VI: Accelerating Global Change and Realignment, 1914 – Present

The AP World History course is not just about the content. Students will develop highly critical and analytical thinking skills. Four habits of mind can be applied to any history course:

1. Constructing and evaluating arguments: using evidence to make plausible arguments.
2. Using documents and other primary sources: developing the skills necessary to analyze point of view, context, and bias, and to understand and interpret information.
3. Assessing issues of change and continuity over time, including the capacity to deal with change as a process and with questions of causation.
4. Understanding diversity of interpretations through analysis of context, point of view and frame of reference.

Finally, AP World will act as a bridge between high school and college by imparting skills necessary to succeed at the collegiate level, including:

- Reading skills and strategies for college level works.
- Note-taking strategies for a collegiate setting.
- Study skills and test taking strategies for college level tests.
- Writing skills to address a variety of styles and prompts.
- Research skills for large papers or projects.

Boonsboro High

ESSENCE Dual Credit Courses

Qualifying students can take designated dual credit courses that are taught in high school. Upon successful completion of a dual credit course, students will be awarded both high school and college credit and the grade will be calculated in the high school GPA, using the Standard Quality Point Values.

ESSENCE Course Descriptions

PUBLIC SPEAKING

Mr. Bair bairmic@wcps.k12.md.us

COURSE DESCRIPTION: Public Speaking (3 credits)

Public Speaking 103 is the beginning course that studies the theory of public address and gives students practice in speaking to a classroom audience. Mechanics of speech preparation and organization, and the delivery of short speeches are included. Emphasis is on informative presentations and the implementation of visual aids.

GENERAL EDUCATION OUTCOMES:

Students should be able to:

- Write or deliver an organized, coherent, fully developed essay or speech that uses standard English and cites outside sources appropriately.
- Evaluate a piece of writing from either literature, current events, non-fiction essays, or a college textbook for logical flaws, rhetorical purpose, organization, and evidence for claims.

STUDENT LEARNING OUTCOMES:

The student should be able to:

- Understand the nature and function of the communication process.
- Craft and present well-organized informative, demonstrative, and persuasive presentations that are responsive to topic, purpose, audience, and occasion.
- Deliver speeches using an audience-centered approach.
- Evaluate the effectiveness of their own and others' communication in various contexts.
- Apply critical thinking skills to the challenges facing public speakers in our society.

EXPECTED HOURS OF STUDY:

To earn three academic credits for Speech 103, students are required to complete a minimum of 112.5 clock hours of coursework. Those hours of coursework may be completed through a combination of hours inside and outside the classroom as follows: in-class instruction, out of class preparation time, a case study (interviewing, observing, etc.)

COLLEGE ALGEBRA

Mr. Bright brighjus@wcps.k12.md.us

Course Description:

This course is a problem solving approach to the nature of mathematics as a logical system. The structure of the number system is developed axiomatically and extended by logical reasoning to cover essential algebraic topics: algebraic expression, functions, and theory of equations.

Other information:

Students will participate in a blended style course that offers direct instruction from a teacher combined with online modules. Students will have the opportunity to receive college credit for a freshman level course while still enrolled in high school. In order to receive college credit, students must have scored at least a 500 on the math portion of the SAT prior to starting the course or must have a score on Accuplacer that would qualify them to enter a math course at HCC. Students without this score can still take the course, but only to satisfy a high school graduation requirement.

ADVANCED ANATOMY & PHYSIOLOGY

Ms. Radomski radombet@wcps.k12.md.us

Advanced Anatomy and Physiology is a dual enrollment course in which students can potentially gain credits for Bio 110 Human Biology at HCC. Students will survey the structures and functions of the human body from the microscopic chemical building blocks to the cooperative functions of entire systems. Students will also complete laboratory activities to reinforce these concepts and culminate their learning experience with a mammal dissection.

PSYCHOLOGY

Mr. Orendi orendjas@wcps.k12.md.us

The ESSENCE Psychology course is designed as an introductory course and prerequisite to other psychology courses, general psychology introduces the data, concepts, theories, principles, and methods of contemporary psychology while examining the dynamic factors that influence behavior.

The ESSENCE course provides expectations and opportunities for students to work both independently and in a group format, at an accelerated pace, to engage in more rigorous and complex content, and to develop projects and products that reflect that level of understanding while earning college credit.

The course will earn one (1) credit toward a Maryland High School Diploma and three (3) college credits from Hagerstown Community College. Students must complete the Hagerstown Community College application requirements and pay the appropriate fees for the upcoming school year in order to be enrolled and receive college credit in Essence Psychology. There is financial aid available in several forms.

SOCIOLOGY

Mr. Orendi orendjas@wcps.k12.md.us

Essence Sociology students study sociological concepts and examine the structure and function of society as a foundation for understanding modern social interaction, social institutions, and analyzing social problems. The Essence course provides expectations and opportunities for students to work both independently and in a group format, at an accelerated pace, to engage in more rigorous and complex content, and to develop projects and products that reflect that level of understanding while earning college credit.☒☒

The course will earn one (1) credit toward a Maryland High School Diploma and three (3) college credits from Hagerstown Community College. Students must complete the Hagerstown Community College application requirements and pay the appropriate fees for the upcoming school year in order to be enrolled in Essence Sociology.

BHS's Success!

BHS students who take Advanced Placement courses far exceed the success rate of students overall in Maryland and globally.

College Board and WCPS consider a score of 3 (out of 5) on the AP test as a 'passing' score. You can see in the chart below that BHS had a 77% pass rate in 2017, which surpassed not just Maryland and global scores, but also our own outstanding 2016 rate of 68%. We are very proud of our students' success that results from the excellent teaching of our Warrior staff!

