



Upper School Curriculum Guide

2018-19

Dawn Grey  
Head of Upper School  
[dgrey@ghcds.org](mailto:dgrey@ghcds.org)  
340-778-1974 x2103

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## MATH

**Required classes: Algebra 1, Geometry, and Algebra 2**

**Required credits: 3**

7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Pre-Algebra	8 <sup>th</sup> Gr. Math	Algebra I	Geometry	Algebra II	Pre-Calculus
8 <sup>th</sup> Gr. Math	Algebra I	Geometry	Geometry & Algebra II	Pre-Calculus	Calculus
			Algebra II	Calculus	AP Calculus
			Pre-Calculus	AP Calculus	Indepen.Mat
			Statistics	Statistics	Statistics
			Discrete	Discrete	Discrete

### **Algebra 1 (1.00)**

**Instructor: TBD**

Algebra 1 is a student's first course in symbolic mathematics. It is within this course that students are first made aware of variable expressions as representations of real numbers. Students learn how to manipulate these variables using familiar arithmetic and exponential operations. Topics include: polynomials, fractions, an introduction to functions, quadratic functions, matrices, systems of linear equations, rational and irrational numbers and probability.

### **Geometry (1.00)**

**Instructor: Ms. Baker**

The mathematics of the perfect. Geometry gives students the opportunity to make conjectures and prove that their ideas follow logically from their hypotheses. Congruence and similarity will be established. Transformations and coordinate geometry will be used to establish and verify geometric relationships. Properties of triangles, quadrilaterals and circles will receive particular attention. Students will use the traditional tools of compass and straightedge as well as dynamic geometry software (such as the Geometer's Sketchpad, Geogebra and Desmos) that models these tools more efficiently and accurately. Prerequisite: Algebra I (*Note: Placement exam required for 9<sup>th</sup> grade students, who are accepted into the class for a probationary period of the first quarter.*)

### **Algebra 2 (1.00)**

**Prerequisite: Algebra 1**

**Instructor: Ms. Baker & Ms. Klein**

Algebra 2 is a course that extends the content of Algebra I and provides further development of the concept of a function. Topics include: (1) relations, functions, equations and inequalities; (2) conic sections; (3) polynomials; (4) algebraic fractions; (5) logarithmic and exponential functions; (6) sequences and series; and (7) counting principles and probability.

### **PreCalculus (1.00)**

**Prerequisites: Minimum 73% in Geometry, Algebra 2.**

**Instructor: Ms. Barrant**

Basic algebraic concepts, as well as linear, exponential, power and periodic, polynomial and rational functions. Introduction to trigonometric functions and their inverses trigonometric graphs and analytic trigonometry with additional topics. **There is an \$80 lab fee for this course.**

### **Calculus (1.00)**

**Prerequisite: PreCalculus**

**Instructor: Ms. Klein**

Calculus students will work to develop an intuitive understanding of the concepts of Calculus, and will gain experience with its methods and applications. Students taking this course must have demonstrated mastery of algebra, geometry, coordinate geometry and trigonometry in addition to elementary functions. These functions include algebraic, trigonometric, exponential and logarithmic functions and their inverses.

### **Calculus for AP AB Exam (1.00)**

**Prerequisite: PreCalculus**

**Instructor: Ms. Klein**

In this course, students will work to develop an intuitive understanding of the concepts of Calculus, and will gain experience with its methods and applications. The content of this course is designed to mirror that of a one semester college calculus course, and the course will follow the guidelines set forth by the College Board for AP Calculus AB. Students are required to take the AP Exam, exam fee \$90.

### **AP Statistics (1.00)**

**Prerequisite: Algebra I**

**Instructor: Ms. Baker**

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns 2. Sampling and Experimentation: Planning and conducting a study 3. Anticipating Patterns: Exploring random phenomena using probability and simulation 4. Statistical Inference: Estimating population parameters and testing hypotheses. Students are required to take the AP Exam, exam fee \$90.

### **Discrete Mathematics (.25) Semester I**

**Instructor: Ms. Baker**

This first semester class is an introduction to the mathematical solving of discrete rather than continuous problems. Topics will include logic, Boolean algebra and set theory. These topics are important tools for computer science – in addition to being some of the most interesting modern mathematical fields. Applications and modeling are central to this course of study. Meets every other day.

### **Discrete Mathematics B (.25) Semester II**

**Instructor: Ms. Baker**

This second semester class is an introduction to the mathematical solving of discrete rather than continuous problems. Topics will include graph theory, combinatorics, apportionment and voting theory. These topics are important tools for computer science – in addition to being some of the most interesting modern mathematical fields. Applications and modeling are central to this course of study. Discrete Mathematics A is NOT a prerequisite for this class.

### **Math Skills (.25) semester I, II, or year**

**Instructor: Ms. Grey & Dr. Turk**

A course designed for 9th and 10th graders who need to brush up on basic math skills or who need some extra help in math classes.

### **Financial Literacy 101 (0.25) Semester I or II**

**Instructor: Mr. Fletcher**

*“Financial freedom is available to those who learn about it and work for it.” ~ Robert Kiyosaki*

*“A big part of financial freedom is having your heart and mind free from worry*

*about the what-ifs of life.” ~ Suze Orman*

Less than half of high school seniors qualify as financially literate, and more than 7 million borrowers are in default on student loans for college. Students are facing tremendous financial challenges without the basic knowledge needed to thrive in today's global economy. This dynamic elective course is designed to provide 9-12<sup>th</sup> grade students with an introduction to financial literacy. It features engaging design, student-centered activities, research projects, discussion points, and tools and resources – all designed to engage students in learning the personal finance skills they need to succeed in life after high school.

## **BUSINESS**

### **Introduction to Business (0.25) Semester I or II**

**Instructor: Mr. Chandler**

**Grades: 9-12**

This semester long course will serve as an introduction to the study of business. The theme of the course is American based business concepts from a perspective of individuality. Topics in the course include entrepreneurship broken down into components of starting a business and operating a business as a sole proprietor, partner, or corporate officer. Further, this course delves into the business aspects of everyday life that people face leaving school and going into the adult world. Topics under this portion of the class involve learning about the banking process, financing wisely including understanding loans, mortgages and interest, personal finance involving building and protecting your credit score (FICO).

This course will benefit students who are interested in pursuing a business career and will also provide general knowledge to all students about how the business world works! If you would like to know what essentials you will need to navigate renting an apartment, reading a contract, negotiating a student loan, borrowing money to go into business or just financing your first car or home then this is a great course for you!!

### **Introduction to Business Law (0.25) Semester I or II**

**Instructor: Mr. Chandler**

**Grades: 10-12**

This semester long course will serve as an introduction to the study of business law. The theme of this course is American based law as it applies to the operation of a business. Although this course supplements the Introduction to Business course, it specifically addresses the legal aspects involved in business and commerce. It is a legal class as opposed to a business class.

Commercial law or business law is the body of law which governs business and commerce and is often considered to be a branch of civil law and deals both with issues of private law and public law. Commercial law regulates corporate contracts, hiring practices, and the manufacture and sales of consumer goods. Topics covered in this course include consumer laws, torts, intellectual property, trademarks, patents, copyrights, and bailment. Covered in this class are specific contracts, tax codes and unified commercial codes.

### **Leadership and You (0.25) Semester I or II**

**Instructor: Mr. Loya**

**Grades 10-12**

This course is designed to help you learn more about yourself and help you become more effective (and happy!) in all parts of your life—immediately. The course will meet twice weekly and be modeled after Stephen Covey's *Seven Habits of Highly Effective People*. Through hands-on activities, individual and group challenges, speakers, writing reflections, readings, case studies, and discussions, students will learn to: 1) *Be Proactive*; 2) *Begin with the End in Mind*; 3) *Put First Things First*; 4) *Think Win-Win*; 5) *Seek First To Understand, Then Be Understood*;

6) *Synergize*; and 7) *Sharpen the Saw*. Enrollment is limited to 12 students total. To apply for the course, interested students must write in 150 words or less why they are interested in taking this course and email this to Mr. Loya (kloya@ghcds.org).

## SCIENCE

**Required classes: Physical Science & Biology**

**Required credits: 3**

9th	10 <sup>th</sup>	11th	12th
Physical Science	Physical Science	Chemistry	Chemistry
Biology	Biology	Forensics	Forensics
		Marine Biology	Marine Biology
		Environmental Science	Environmental Science
			Physics

### **Biology (1.00)**

**Instructor: Ms. Dunton**

Cell structure and function, chemical compounds of life, genetics, evolution, plants, invertebrates, vertebrates, human anatomy and system function. There is a strong emphasis on lab, field studies and research skills.

### **Physical Science (1.00)**

**Instructor: Mr. Summerhayes**

An Introductory course to chemistry and physics. Topics include: scientific method, metric system, density, phases, atomic structure, periodic table, chemical bonding, types of reactions, acids and bases, nuclear physics, waves, light, sound, electricity, and magnetism.

### **Chemistry (1.00)**

**Prerequisites: Physical Science, Biology, enrollment in Algebra 2 or higher math**

**Instructor: Mr. Summerhayes**

Chemistry is the study of the structure and composition of matter, how it changes, and the mechanisms of those changes. Topics include: metric system, scientific notation, significant figures, atomic structure, chemical bonding, chemical composition, equation writing, gas laws, thermodynamics, solutions, acid/base theory, equilibria, and electrochemistry.

**Physics (1.00)****Prerequisites: Physical Science, Biology, enrollment in Pre-Calculus or higher math****Instructor: Ms. Baker**

The universe is no open book. Physics is our attempt to peek behind the curtain of nature and see how it really is. The course provides students with an introductory experience in the concepts and methods of physical analysis, focused on classical mechanics and simple electrical circuits. Students will develop scientific models, evaluate them and then apply those models in problems. Building the ability to reason qualitatively and quantitatively is a primary focus, with inquiry and investigation, symbolic algebra, unit analysis, communication and argumentation, data analysis and integration and application of concepts as emphasized skills.

**Forensics (1.00)****Prerequisites: Physical Science, Biology****Instructor: Ms. Dunton**

Introduction into the laws and guidelines that regulate field investigations and discoveries. Lab investigations involving field techniques used during forensic analysis. Fingerprinting, bone analysis, hair analysis, bite marks, tissue samples, excavation, blood types, blood designs, tire and shoe print analysis, gender, age and race analysis.

**Marine Biology (1.00)****Prerequisites: Physical Science, Biology****Instructor: Ms. Dunton**

This course introduces the diverse array of marine organisms and marine habitats to students. Examination of the ecology of oceans from the intertidal to the deep sea is the basis of the course. Emphasis is on adaptation to environmental factors and ecological relationships. The course includes field studies conducted near Salt River.

**Environmental Science (1.00)****Prerequisites: Physical Science, Biology****Instructor: Ms. Dunton**

This course introduces topics of the environment and environmental issues that impact the world. Discussion on population studies, climate change, deforestation, diseases, watersheds, pollution and biodiversity will be covered. This is a lab based course and requires off campus studies and investigations a couple of days a week.

**Science Fair (.25) Semester I****Instructor: Dr. Turk**

This class is **required** for all incoming 9<sup>th</sup> grade students, as well as all 10<sup>th</sup> grade students who did not participate in Science Fair last school year. It is open to any student in any grade if they are participating in science fair, though in this case the class is optional.

## STEM

### **Introduction to Engineering (0.25-0.5) Semester I, II, or year**

**Instructor: Dr. Turk**

This course will introduce students to the field of engineering, providing an overview of the types of engineering, the education, the careers and finally the problem solving approach. It will use a mixture of lectures and group discussions, potential site visits or presentations from practicing engineers, along with practical first-hand experience through completion of multiple student-selected team engineering projects. The course will culminate in an Engineering Exposition that allows the students to showcase their projects and engineering skills.

## ENGLISH

**Requirement: 4 English Credits**

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English 9	World Literature American Literature (only open to 10 <sup>th</sup> grade AP US History students)	American Literature ( plus AP English Lang and Comp—optional)	American Literature (plus AP English Lang and Comp—optional)
		British Literature (Semester I or II)	British Literature (Semester I or II)
		Culture Clash (Semester I or II)	Culture Clash (Semester I or II)
			AP English Lit and Comp

### **English 9: Making Meaning Through Literature (1.00)**

**Instructor: Ms. Croney**

#### **Grade 9**

What does it mean to live a meaningful life in the 21<sup>st</sup> century? What does it mean to be a good human being? How can literature help us to live a good life? We will explore these questions and others in both classic and contemporary works of fiction and nonfiction. This is a writing intensive class and will fulfill your English/Writing Workshop requirement. Throughout the course we will write in a variety of genres including personal narrative, reflection, and literary analysis. We will read from a selection of the following texts: *Brown Girl Dreaming*, *Fahrenheit 451*, *Behind the Beautiful Forevers*, *To Kill a Mockingbird*, *Summer of My German Soldier*, *Chinese Cinderella*, *The Absolute True Diary of a Part-Time Indian*, *Finding Miracles*, *Marcello in the Real World*, *Catcher in the Rye*, and *A Raisin in the Sun*.



**World Literature I (1:00)****Instructor: Mr. Canning****Grade 10**

Students focus on the critical analysis of major, canonical texts of world literature. As a class we will read, discuss and write critical essays on novels, poetry, drama and nonfiction produced in cultures the world over; from ancient to modern times. Major texts include *The Odyssey*, *Oedipus Rex*, *Macbeth*, *Chronicle of a Death Foretold*, *Life of Pi*, *The Kite Runner* and *The Things They Carried*. Vocabulary-in-Context Units as well as literary terms/rhetorical devices and grammar & syntax units will supplement our reading and discussion of these texts. Daily Critical Reading Journal entries will foster critical engagement with the texts while encouraging an interactive approach to reading. Essays and projects involving critical analysis of major themes in the literature under consideration will be assigned on a regular basis.

**American Literature (1.00)****Instructor: Ms. Wilson****Grades 11, 12**

For the time period covering 1600 to the present students will read excellent examples of traditional and contemporary American and West Indian literature. The reading assignments will challenge their ways of thinking, illustrate the cultural and ethnic variety of America and often relate to personal experiences. Students will write regular essays to demonstrate and develop their skills in vocabulary, grammar and expository writing. AP Language & Composition Exam optional - \$90 exam fee.

**British Literature I or II (0.5)****Instructor: Mr. Canning****Grade 11, 12**

This class traces the evolution of British Literature from the Norse-based epic, *Beowulf*, through *The Canterbury Tales*, Elizabethan literature (Shakespeare, Marlowe, etc.) through the Victorian Age (*The Importance of Being Ernest*, *Pride and Prejudice*). Students will examine how English history and literature are essentially inseparable—one is both the cause and effect of the other at all times. Students will study a variety of genres including epic poetry, plays, novels, and non-fiction. In addition, students will write for a variety of purposes and do group projects and performances.

**Culture Clash Semester I or II (0.5)****Instructor: Ms. Wilson****Grades: 11-12**

What happens when cultures clash? Do people run? Fight? Seek to understand? What do you do or will you do when your culture clashes with another's? In this course, we will examine some interesting clashes in culture through literature and writing: racial, class, religious, gender, immigrant, and age clashes to name a few. We will read from a selection of the following texts: *The Interpreter of Maladies*, *The Namesake*, *The Joy Luck Club*, *The Brief Wondrous Life of Oscar Wao*, *A Thousand Splendid Suns*, *The Power of One*, *Middlesex*, *The Mambo Kings Play Songs of Love*, *The Red Tent*, *A Long Way Gone*, *In One Person*, and *Night or Schindler's List*.

This course will be supplemented through: film, short stories, essays, class discussion, journal writing, and guest speakers when available. In addition, we will look at the modern world and examine culture clashes that are occurring even now.

### **Advanced Placement English Literature & Composition (1.00)**

**Instructor: Mr. Canning**

**Grade: 12**

This college-level English course engages students in the careful reading, explication and critical analysis of imaginative literature from various genres and time periods, concentrating on works of recognized literary merit. Major texts include *One Hundred Years of Solitude*, *Prodigal Summer*, *Snow Falling on Cedars*, *Revolutionary Road*, *The God of Small Things*, *Hamlet*, *The Paris Wife* and others. Through the close reading of these and other selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as the use of figurative language, imagery, symbolism and tone. As we pursue a rigorous curriculum of intensive close-reading, students will learn to analyze and interpret imaginative literature and to write about it in lucid and persuasive prose. Students in this class are required to take the AP Exam - \$90 exam fee

### **Writing Workshop (0.25-0.5)**

**Instructor: Ms. Croney**

This course promotes the process approach to writing. Writing Workshop aims to help students develop analytical and grammatical skills by fostering a positive attitude toward writing and its important relationship to critical and creative thinking. We will use student writings and a variety of articles and short essays as the foundation of our studies.

### **Shakespeare (0.25-0.5) Semester I, II or year**

**Instructor: Mr. Shelley**

This is a course in the study of the works of William Shakespeare. Students will become familiar with the sonnets, poems, and plays, of William Shakespeare through reading, viewing, and performing. Conventions of Elizabethan Theatre will be taught, as will iambic Pentameter and Rhyme. In this class students read, write, and speak the language of William Shakespeare in order to increase understanding of heightened language, characterization, and plot.

### **Cinema (0.25) Semester I or II**

**Instructor: Mr. Summerhayes**

**Grades 10, 11, 12**

This class provides an introduction to the narrative and stylistic techniques used in filmmaking in order to more fully understand how a story is constructed, conveyed, and interpreted in film. Both classic & contemporary films will be shown, including comedies, thrillers, science fiction, dramas and foreign. Students will help choose which genres are studied. Students will critically explore these films and the creative approaches behind them, developing their own informed perspective through facilitated discussion. A three paged paper is required at end of course, comparing the films viewed.

**Acting Theory and Practicum (0.25-0.5) Semester I, II, or year****Instructor: Mr. Shelley**

Students will study conventional Western theatre acting traditions as well as explore innovative new acting techniques from around the world. Students will engage daily in different acting exercises, fine-tuning their craft. Students will prepare auditions, refine audition technique, and create a working repertoire of material. Students will perform monologues and scenes, working with both classical and contemporary dramatic literature. Areas of study included but are not limited to voice and diction, movement and physicality, Stanislavsky and method acting, Uta Hagen and *Respect for Acting*; emotion and sensory recall, Rasa boxes – emotional Olympians, College/Professional auditions, and Patsy Rodenburg – Presence in theatre.

**Journalism (.25- 0.5) Semester I, II, or year****Instructor: Mr. Fletcher**

Students learn the fundamentals of journalistic writing, with emphasis on news, feature and editorial articles. The class produces the school newspaper, *GHCDs PantherPress*. For students interested in writing for self-expression and/or communication, or who desire to tap their creative side to see what my lie there!

**Public Speaking/Debate (.25) Semester II****Instructor: Ms. Thatcher**

This elective will take a fun and effective approach to developing and refining your public speaking skills through extemporaneous debate. We'll work on staging, articulation and elocution as well as content and strategies for overcoming any personal barriers to public presentations, interviews or speech-making. Methods will include daily debate and the use of flowcharts, viewing famous speeches, and critique.

## **SOCIAL STUDIES**

**Required classes: VI History (1/2 credit), US Government (1/2 credit), World History (1/2 credit), and US History (1 credit)**

**Required Credits: 4**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
<b>Full Year Options</b>			
	AP US History	AP US History	AP US History
		US History	US History
<b>Semester I</b>			
US Government	US Government	US Government	US Government
	World History I	World History I	World History I
	Microeconomics	Microeconomics	Microeconomics
	20 <sup>th</sup> Century Caribbean History	20 <sup>th</sup> Century Caribbean History	20 <sup>th</sup> Century Caribbean History
			Civics
<b>Semester II</b>			
VI History	VI History	VI History	VI History
	World Revolutions	World Revolutions	World Revolutions
	World History II	World History II	World History II
	Macroeconomics	Macroeconomics	Macroeconomics

**AP US History (1.0)****Instructor: Dr. Guerra****Grades 10-12**

Historical eras covered begin with the Native Americans and continue through to the present day. Emphasis is on critical thinking skills, primary source analysis, understanding historical patterns and constructing well-written essays. Students who take this class must commit to at least 3 out-of-school hours every month (usually Saturday mornings or after school), and two weeks of intense review sessions before the exam in May. This class is for serious students who enjoy reading and writing. APUSH students should expect at least an hour a night of homework as well as summer and winter break assignments. Exam fee.

**US History I (1.0)****Instructor: Dr. Guerra****Grades 11-12**

In this project-based and writing-intensive class, students will explore several topics in-depth in American history in the period between the English arriving in Jamestown in the early 1600s through present times. Topics might include the following: colonial America, slavery, Manifest Destiny and expansion, the Civil War, and Reconstruction, immigration, the Gilded Age, the Spanish-American War, World War I and II, post-War culture, the Civil Rights Movement, Vietnam and protest movements in the 1960s and 1970s. Students will learn critical thinking, primary source analysis, and writing skills. Students will also explore themes such as politics and power; justice and equality; identity; democracy; peopling; imperialism; and ideas, beliefs, and culture, and will connect what they are learning about the past to current events. Students will produce a research paper that they may be able to use as a jumpstart for their senior thesis.

**US Government (0.5) Semester I****Instructor: Mr. Fletcher****Grade 9-12 (Mandatory for 9th grade, open to those who need a Civics credit)**

Since the revolutionary founding of the United States of America, it has been recognized that the preservation and healthy functioning of our unique and continuously-evolving democracy requires that citizens play an active role in what is ultimately a system of self-government. For citizens to effectively assume such a role requires an informed understanding of the structure of their rights and responsibilities as citizens, the purpose and functions of government, and the interaction between the two. Topics to be covered throughout this course include: political philosophies upon which the republic was founded, constitutional underpinnings and structure of American government, political beliefs and behaviors, political parties, interest groups, campaigning and elections, branches of government and various institutions, U.S. territories, and public policy development and civil liberties. Required for all 9th graders, and open to those who need a Civics credit in order to graduate. Expect a significant amount of outside reading, in addition to one 4-6 page research paper each quarter.

**World History: Modern European History (0.5) Semester I or II****Instructor: Ms. Croney****Grades 10-12**

This course focuses on modern Europe from the time of the Renaissance to the collapse of the Soviet Union. Our studies will closely examine how the leadership, culture, and economics of each nation intertwined over a period of four hundred years to produce what came to be known as Western Civilization. Students will analyze and interpret the significance of events using a variety of media, including aural, visual, and written primary and secondary sources. Research skills, creative analysis, and strongly supported persuasive writing will be core components of this course.

**20th Century Caribbean History (0.5) Semester I****Instructor: Mr. Fletcher****Grades 10-12**

In this course will focus on the following historical phenomena: the rise of nationalism in the Anglophone Caribbean between the 1930s and 1960s, the internal and external causes of decolonization, Marxism and the revolutions in Cuba and Grenada, the rise of the U.S. as an imperial power, and the economic effects of globalization.

**Microeconomics (0.5) Semester I****Instructor: Mr. Fletcher****Grades 10-12**

This semester-long course will serve as an introduction to the study of economics. Required for all seniors. Topics covered include scarcity, opportunity costs, types of business organizations, demand, supply, elasticity, prices and decision making, competition, market structure, market failure, the role of government and comparative economic systems. Expect a significant amount of outside reading, in addition to one 4-6 page research paper each quarter

**Civics: A More Perfect Union (0.5) Semester I****Instructor: Dr. Guerra****Grade 12**

In this class, we will look at the ways in which people in the United States have fought for “a more perfect union” by addressing some of the following questions: How have people pursued the creation of a more just society in the United States? How has change historically happened? How can it happen now? What can you do to bring about change? The class will explore these questions by looking at ways in which the United States government has been organized to bring about change (i.e. the constitution, federalism, and the legislative, executive, and judicial branches), as well as ways in which people in the United States have redefined and demanded justice, such as through labor organizing, boycotts, sit-ins, working through the judicial system, creating and participating in civic and charity organizations, and other nonviolent and violent protests. We will also explore the role of the media, propaganda, political parties, and lobbyists in effecting change. Students will produce a final research project that will have an action component.

## **VI History (0.5) Semester II**

**Instructor: Dr. Guerra**

### **Grade 9**

Through readings, discussions, projects, and field trips, students will learn about VI History from its earliest inhabitants to current discussions about our territorial status. Students will explore slavery and resistance, colonization, emancipation, early labor movements (with David Hamilton Jackson and the Queens of the Fireburn), the transfer from Denmark to the United States, cultural history, as well as current movements for self-determination. This is a graduation requirement.

## **World Revolutions (0.5) Semester II**

**Instructor: Mr. Fletcher**

### **Grades 10-12**

From antiquity to modern times, revolutions have shaken the world. At times revolutionaries won extraordinary victories, at other times suffered shattering defeat. This history course sheds light on successes and failures of major revolutions in modern history, from the French Revolution of 1789 to the Arab Spring in 2011. We will explore the introduction of new ideologies, such as of Liberalism, Nationalism, Marxism, and Political Islam, through the history of Revolutionary Mexico, the Revolution in China, the Bolshevik Revolution in Russia, the 1979 Revolution in Iran and the South African anti-apartheid movement. Students will actively engage with the central question of why human history in the last 250 years has witnessed periods of profound transformation.

Were they driven primarily by technological and economic developments, or were new ideas and philosophies the most important agents of rapid historical change? What role was played in these transformations by individuals and by governments? What exactly do we mean by the term 'revolution', and how legitimately can the word be applied to the events that we cover in this course? This course has three main objectives. Firstly, it will ask students to engage with some of the most important debates about the factors that led to rapid historical change. Secondly, the course furnishes students with an overview of the 'big picture' of world history across the last 250 years. Students will acquire essential contextual knowledge which will enrich their understanding of almost any subsequent course they take in history or the humanities. Thirdly, the course will facilitate students' understanding of the world in which they live by exploring some of the key developments that have shaped our common history. The course allows for insights into our own rapidly changing era by exploring other revolutionary episodes in our past. Expect a significant amount of outside reading, in addition to completing one 4-6 page research paper each quarter.

## **Macroeconomics (0.5) Semester II**

**Instructor: Mr. Fletcher**

### **Grades 10-12**

This course will focus on “big picture” economic phenomena including labor markets, tax systems, national deficits and debt, money and banking, monetary and fiscal policy, measuring national output, economic growth and business cycles, stabilization policies, types of unemployment, inflation, income distribution, international trade, absolute and comparative advantage, comparative economic systems, developing countries and global economic challenges. Expect a significant amount of outside reading, in addition to completing one 4-6 page research paper each quarter.

## **Editorial Cartooning Theory and Practice (.25) Semester II**

**Instructor: Mr. Fletcher**

In this course we will theorize the socio-political roles of editorial cartoons, and use methodological approaches to cartoon analysis. This is also primarily a hands-on, participatory course, in which students are expected to regularly produce well-crafted and intelligent, fun and witty editorial cartoons. If you’ve never had an art course before, don’t worry. If you can draw basic shapes or you’re a compulsive doodler, you’ll do fine. You’ll learn tips and techniques on how to draw cartoony people, places, animals and things through numerous practical exercises and lots of practice. You’ll also be exposed to learning how to hand letter like a professional.

## **LANGUAGES**

**Required Credits: 2** (does not include Spanish 1 or French 1 taken in the 8<sup>th</sup> grade)

### **SPANISH**

<b>7<sup>th</sup> Grade</b>	<b>8<sup>th</sup> Grade</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
7 <sup>th</sup> Gr. Spanish	8 <sup>th</sup> Gr. Spanish	Spanish I	Spanish I	Spanish I	Spanish I
		Spanish II	Spanish II	Spanish II	Spanish II
			Spanish III	Spanish III	Spanish II
				Spanish IV	Spanish IV
					AP Spanish



### **Spanish 1 (1.00)**

**Instructor: Ms.Schill**

This course will introduce the student to the sound system and grammatical structure of the Spanish language. The focus will be on developing and increasing skill levels in the areas of aural comprehension, speaking, reading, and writing. At the end of one semester, the student will have a basic understanding of grammar, including word formation, verb conjugations, idiomatic expressions, and will recognize cognates. Students will study practical Spanish vocabulary and the essential rules of Spanish grammar during class. This course will introduce students to the customs, music and culture of the Hispanic world. The teaching method is based on questions, drills and speaking practices, writing activities, singing and composing situational dialogues in Spanish with Hispanic cultural themes interwoven into each unit. While correct grammar is emphasized, the fundamental component of this course is on speaking Spanish through vocabulary study, conversational practice and oral grammar skills.

### **Spanish 2 (1.00)**

**Instructor: Ms.Schill**

This course develops Spanish comprehension and fluency to an intermediate mastery of conversational Spanish. It reviews basic Spanish vocabulary and structures in order to strengthen self-expression and basic communication skills in functional contexts. Listening comprehension, speaking, reading and writing are further developed through expanded application of vocabulary and linguistic structures. The teaching method is based on questions, drills and speaking practices, writing activities, singing and composing situational dialogues with Hispanic cultural themes that are interwoven into each unit. It is intended for students to improve their pronunciation skills and vocabulary proficiency. Communication is relevant to students by using youth-related themes and by personalizing content with Spanish being the language of the classroom, with use of English being limited to explanation of grammar and clarification of instructions, whenever they are needed.

### **Spanish 3 (1.00)**

**Instructor: Ms.Capriola**

This class is designed to build on intermediate skills to communicate in Spanish at a more advanced level. Students continually engaged in authentic communicative tasks. Students practice the language through in-class drills, listening activities and oral projects. They also read Spanish material from magazines and newspapers related to culture and literature and write compositions and dialogues to develop expressive skills. Students review concepts learned in the Spanish 2 course to reinforce the mastery of grammar and learn more advanced structures. Communication is relevant to students by using youth-related themes and by personalizing content with Spanish being the language of the classroom, with use of English being limited to explanation of grammar and clarification of instructions, whenever they are needed.

### **Spanish 4 (1.00)**

**Instructor: Ms.Capriola**

This course is open to advanced level students who have mastered Spanish grammar and can read and write in Spanish at least on an Intermediate level. It will review and perfect Spanish grammar and structure, focus on pronunciation, conversation and listening comprehension and will include reading of classic Spanish literature revised for Intermediate and Advanced Spanish students. More emphasis will be placed on reading, writing and oral communication as well as listening comprehension. The class will be conducted completely in Spanish and the students are encouraged to use the target language consistently, not only in the school setting but also in different situations outside the school.

### **Spanish for the AP Language and Culture Exam (1.00)**

**Instructor: Ms.Capriola**

This course has been designed to provide advanced high school students with a rich and rigorous opportunity to study the language and culture of the Spanish speaking world. The course also provides students with opportunities to demonstrate their proficiency in each of the three modes of communication: Interpersonal, Interpretive and Presentational. This class will develop advanced conversational and communicative skills through the practice of fluency and pronunciation. In order to effectively communicate, this course includes the review and enrichment of grammar concepts and vocabulary. Special attention is given to literary as well as current events. Our AP Spanish Language and Culture curriculum is composed of 6 thematic units established by College Board. The units cover a variety of social and cultural issues that are important to our global community. The end desire of teaching these units is to nurture the students' growth as they become Global Citizens and help them make cultural connections when comparing their individual communities to those of the Spanish Speaking world. The 6 Thematic Units are: Personal and Public Identity; Families and Communities; Science and Technology; Beauty and Aesthetics; Contemporary Life; and Global Challenges. Prerequisite: Successful completion of Spanish 4. **Students are required to buy a workbook. Students are required to take the AP Exam – exam fee - \$90.**

## FRENCH

7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
7 <sup>th</sup> Gr. French	8 <sup>th</sup> Gr. French	French I	French I	French I	French I
		French II	French II	French II	French II
			French III	French III	French III
				French IV	French IV
					French V

### **French 1 (1.00)**

**Instructor: Ms.Schill**

This course will introduce the students to modern French and enable them to begin to communicate orally as well as through reading and writing. We will stress communication among students and between the student and the teacher. Vocabulary and grammar will be introduced and reinforced daily through written, spoken, and listening drills. By the end of the year, we will have mastered regular and irregular verbs in the present tense and be introduced to the passe compose tense. The French class also introduces students to a wealth of cultural information that will make them more aware of the world around them.

Students are required to buy an activities workbook.

### **French 2 (1.00)**

**Instructor: Ms.Logan**

This course will continue to enhance the student's ability to communicate in French. Major grammatical points and vocabulary from French 1 will be reviewed. We will continue to stress communication among students and between student and teacher. Vocabulary and grammar will be introduced and reinforced daily through written, spoken, and listening drills. We will aim toward a more in depth understanding of the language and various aspects of French life.

By the end of the year the passe compose tense of regular and irregular verbs will be mastered and reflexive verbs will be introduced. Students are required to buy an activities workbook and a grammar workbook.

### **French 3 (1.00)**

#### **Instructor: Ms.Logan**

This course includes a review of vocabulary and grammatical points covered in previous years. The student will increase his ability to communicate orally in French and his reading, writing and listening skills. French history, culture, and literature will be introduced through supplemental readings and class discussions. We will aim toward a more in depth understanding of the language and various aspects of French life. By the end of the year the students will have learned imperfect, future simple, subjunctive, and conditional tenses. Students are required to buy an activities workbook and a grammar workbook.

### **French 4**

#### **Instructor: Ms.Logan**

This course will allow the students to increase their ability to communicate orally in French and improve their reading, writing and listening skills. French history, culture, and literature will be introduced through supplemental reading and class discussions. We will concentrate on reviewing all vocabulary and grammar learned in the previous years. Supplemental texts and reading selections will be used. Students are required to buy a workbook.

### **French 5**

#### **Instructor: Ms.Logan**

This course is the continuation of the French 4 class and will prepare the students for the study of French in college. The same workbook as in French 4 will be used.

### **Francophone cinema (0.25) Semester I, II or year**

#### **Instructor: Ms. Schill**

This course is an exploration of the different cultures of France and the Francophone world through film. Through the screening and study of films from France, Africa, Quebec, the Maghreb, Vietnam, and the Caribbean, the course will delve into the heart of these societies and discover their socio-historical, political, economic and cultural context. Students will be expected to participate in discussions about the films as well as write reviews on them. Some of the films to be included (but not limited to):

"Indochine" -Vietnam

"Rue Cases-Nègres" -Martinique

"Lumumba" -Haiti/Congo/Belgium

"Inch'Allah Dimanche" -Muslim culture in France

"Les Intouchables" -France

"Le Grand Voyage" -France to Mecca

"Persepolis" -Iran to France( Instructor: Ms. Schill)

## **COMPUTER**

**Required classes: Computers in the Modern World**

**Required Credits: 0.25**

### **Computer Science in the Modern World (.25) Semester I or II**

**Instructor: Mr. Barrant**

This course designed to expose all students to the interdisciplinary nature of computer science in today's dynamic and globally connected society. Students will have the opportunity to explore the uses of computer science as a tool in creating effective solutions to complex contemporary problems. It is a required course for 9<sup>th</sup> graders and all students new to the school

### **Programming (0.25-.50) Semester I, II or year)**

**Instructor: Mr. Barrant**

CS Programming introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational context, develops computational thinking skills, and engages students in the creative aspects of the field.

### **Computer Science: Programming (1.00)**

**Instructor: Mr. Barrant**

Students will deepen their knowledge and problem solving skills in the field of computer science. Students must complete or test out of Computer Science in the Modern World in order to take this course.

### **AP Computer Science (1.00)**

**Instructor: Mr. Barrant**

AP Computer Science A is equivalent to a first-semester, college level course in computer science. 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 both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. **\$90 exam fee**

### **Robotics (.25-0.5) Semester I, II or year**

**Instructor: Mr. Barrant**

Using robots we will cover the fundamentals of problem solving, program design, algorithms and programming. A robot is an embedded system of software and hardware. Programming and building robots applies science, technology, engineering and math (STEM) concepts.

**Adobe Photoshop CS4 (.25-0.5) Semester I, II, or year****Instructor: Ms. Banwaree**

Learn how to correct and enhance digital photos, create image composites, transform images in perspective, add special effects (including 3D features) and prepare images for print and the web.

**FINE ARTS****Art for the Advanced Placement Portfolio (1.00)****Grades: 12****Instructor: Ms. Banwaree**

Students complete a portfolio for advanced placement program or for submission in the college application process. Consent of instructor required. **\$90 Exam fee.**

**Art (.25-0.5) Semester I, II, or year****Instructor: Ms. Banwaree**

This course begins with drawing in black and white. Pen and Ink, charcoal, pencil, printmaking will be used to produce works relating to perspective, figures, still life, and design.

Color theory will be explored through the use of pastel, oil pastel and color pencil. Problems incorporating realism, abstraction and design will be explored.

**Art Studio (.50) Semester I, II, or year****Instructor: Ms. Banwaree**

This course offers the student the opportunity to continue concentrated work in any of the media areas learned in Art. Work in other areas can also be explored such as mix media, digital art, and independent projects.

**Portrait Painting Using Photographic Sources (.25 - .50) Semester I, II, year****Instructor: Ms. Banwaree**

This class will emphasize the use of photographic references when painting portraits in oil or pastels. The teacher will assist you in going beyond the photograph and applying the same principles used in working from live subject. Anatomical proportion, composition, lighting, and oil painting techniques will be discussed and demonstrated.

**Fashion Event Production (0.50) Year****Instructor: Ms. Banwaree**

Student will gain "hands on" experience in the design, development, direction and coordination of all aspects required to produce apparel for a fashion show.

**Yearbook (.25 - .50) Semester I, II, or year****Instructor: Ms. Banwaree**

Yearbook production for the current school year. Students must have taken Yearbook 1 or have instructor approval. This is a demanding class which requires time outside of class and school.

Prerequisite: Photoshop

**Photography (.25-0.5) Semester I, II, or year**

**Instructor: Ms. Canegata**

Beginning to advanced students.

**PSYCHOLOGY**

**Psychology (.50-1:00) Semester I, II, or year**

**Grades: 11, 12**

**Instructor: I.L.L**

This introductory-level course studies the growth and development of behavioral patterns within the individual. Included in these studies are: scientific methodology, biological psychology, learning, intelligence and its measurement, development, personality and abnormal behavior.

**PERFORMING ARTS**

**Chorus (.25-0.5) Semester I, II, or year**

**Instructor: Ms. Hotter**

Concentrating on a variety of musical styles, the upper school chorus program consists of learning proper techniques of breath control and support, intonation, diction, tone, color, three and four part harmony, phrasing, balance, dynamics, articulation and expression as well as developing sight-singing skills, and a strong emphasis on ensemble as well as individual performance. An evening performance at the Winter Concert/Spring Concert, an afternoon performance at the Botanical Gardens in the fall semester is required.

**Concert Band (.25-0.5) Semester I, II, or year**

**Instructor: Ms. Thompson**

Through rehearsal and performance of ensemble literature of varying styles, cultures and levels of technical difficulty, students will develop technical skills on their instrument of choice, will develop ensemble playing skills, will increase their sense of musical expression, including articulation, dynamics, phrasing and balance, and will improve their sight-reading and improvisation skills. Performance at the Winter Concert/Spring Concert is required.

**Steel Pans (.25-0.5) Semester I, II, or year**

**Instructor: Mr. Belgrave**

For beginners and advanced players. Performance at the Winter Concert/Spring Concert is required.

**Fretboard Adventures: Guitar & Applied Music Theory (.25-0.5) Semester I, II, or year**

**Instructor: Mr. Canning**

This class is a comprehensive introduction to playing the guitar (electric or acoustic). Students will learn how to apply rudimentary music theory to the guitar fretboard. Chords, scales, arpeggios and modes will all be covered and will be applied *in context* to songs, etudes and JAMS. Instruction will also be individualized and specific lesson plans/practice routines will be tailored to meet the needs of each learner. All are welcome: *from absolute beginners to advanced students*. Some guitars may be available for loan.

**Music Appreciation (0.25-0.5) Semester I, II, or year****Instructor: Ms. Thompson**

This elective class is designed to help students who may or may not be musicians explore and understand the origins and developments of music in the western world. Students will develop music listening skills along with an understanding of concepts and vocabulary used to describe or analyze a piece of music in an effort to broaden and enrich each student's enjoyment of music covering a wide variety of styles and historical periods. The influence of Asian, African, Chinese, Japanese, Native American and the international sounds of Islamic music in the world will also be discussed and explored.

**Music Theory (.25-0.5) Semester I, II, or year****Instructor: Ms. Thompson**

This elective class will assist those musicians who want to improve their music reading abilities and listening skills. We will review keys, scales and harmonies which are the building blocks of western music. Playing simple chord progressions on the piano with an understanding of figure bass as first written by Johann Sebastian Bach will be taught. Examples of melodic and rhythm dictation will be played in order to develop each musician's ear so that what they hear, they can write using the correct music notation. All levels of musicianship will be considered with appropriate coursework given in order to best meet the needs of each developing musician.

**Technical Theater (.25-0.5) Semester I, II, or year****Instructor: Mr. Barnwell**

This course is designed to give the student hands-on training in all aspects of technical theatre. From stagecraft to lighting design, students will learn the skills it takes to create professional quality productions. Projects include: sound design, scenery construction, scenic painting, lighting design, stage management and properties design.

**PHYSICAL EDUCATION****Physical Education (.25-0.5) Semester I, II, or year****Instructor: Mr. Floyd**

High School Physical Education: The goal is to build healthy and physically fit, well rounded students in spirit, mind and body. The course will include sports and games, personal fitness, aquatic activities, film studies, and team building activities. Leadership and sportsmanship skills will be intertwined in all aspects. Classes are modified to meet the needs individual students, and personal setting will be taught and encouraged using positive reinforcement.

**Beginning/Intermediate/Fitness Swimming (.25-0.5) Semester I, II, or year****Instructor: Ms. Carter**

High School Swimming: This course is offered to non-swimmers, beginner swimmers and experienced swimmers. Non-Swimmers will receive swimming instruction to help them complete our swim requirements for graduation. Beginner swimmers will receive instruction to help them improve their skill level. Experienced swimmers will receive training suggestions as they challenge themselves to complete workouts.



### **Team Sports (.25)**

Students may earn Physical Education credit for participating in organized sports team/activities that meet regularly before or after the regular school day.

## **ACTIVITIES/SERVICE OPPORTUNITIES**

### **Independent Learning Lab (I.L.L) (.25-0.5) Semester I, II, or year**

**Coordinator: Mr. Shelley**

**Mentor: Dr. Turk**

Using various distance learning opportunities, students can learn anything. The ILL will offer students an opportunity to study courses that are currently not available in our high school curriculum. It could be anything from learning Chinese to philosophy to music production. The sky is the limit. To browse through some available courses, go to Coursera.com or Udemy.com. You will choose your course and work at your own pace on it in the ILL under the supervision of a facilitator. Please note that some, but not all, courses require a fee. In cases where a course offered by our High School does not meet the needs of a student, the student will be permitted to take an online course. **The course must be approved by the Head of Upper School.**

<https://jgrace5.wixsite.com/ghcds-learninglab>.

### **Quiz Bowl (.10-.25) Semester I, II, or year**

**Instructor: Mr. Fletcher**

Students prepare for interscholastic and inter-island academic trivia competitions in the spring; includes learning facts and details covering all areas of curriculum. Open only to students serious about working towards our goal of becoming “Champions of the World.”

### **Basic Sewing/ Sew Powerful Purse Project (0.1-0.25) Semester I, II, or year**

**Instructor: Ms. Banwaree**

This is a sewing lab for students of all sewing levels. It will provide the student the opportunity to develop basic sewing skills learned in the classroom and apply them to apparel and accessory project/s. This year participants will donate handmade purses to the Sew Powerful Purse Project. This organization is working hard to link seamstresses from around the world to combat extreme poverty by providing re-usable feminine hygiene supplies and health training to girls in Zambia. This enables them to attend school all month and improve their academic performance.

### **Senior Yearbook**

**Instructor: Ms. Banwaree**

This class provides seniors with an opportunity to create and work on their individual page in the GHCDs Yearbook.

### **Latin Dance (.10)**

**Instructor: Ms. Capriola**

An introduction to the different Latin Rhythms: Salsa, Merengue, Cha cha, paso doble. Emphasis will be placed on salsa music. No experience necessary.

### **Moot Court (.25) Semester II**

**Instructor: Pamela Colon. Esq & Ms. Thatcher**

Moot court is a simulated oral argument, similar to an argument made before an appellate court. The argument lasts around fifteen minutes, during which time the attorney presents an argument and answers questions posed by the panel of judges. It is not a trial: there are no witnesses and no evidence. The arguments are evaluated on the application of the law to the facts of the case. Our school will compete in the District Moot Court Competition in May 2019.

### **Teacher Assistant**

Students work as aides to elementary, middle school and upper school teachers. Interested students are selected based on factors which include interest area, maturity and school needs.

### **Tutor (.25 - .50 or 12 community service credits)**

Students work as tutors for students from elementary to high school. Maturity and the ability to make a commitment are required. Also required is willingness and ability to work after school two or three days a week.

### **COLLEGE PREP**

#### **College Prep for Juniors (Semester II)**

**Instructor: Ms. Thatcher**

Juniors will begin searching schools, learning how to fill out college applications, writing their student activity resume, setting up their Naviance student account and preparing for the college application process in the fall of their senior year. Test prep will be available during this time as well.

#### **College Prep for Seniors (Semester I)**

**Instructor: Ms. Thatcher**

Required for seniors. This class provides an opportunity to meet with the college counselor while working on applications and essays.