











DRAFT

# Greater Commonwealth Virtual School

2023-2024 HIGH SCHOOL COURSE LIST

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS.

## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
<b>Introduction to Art (2)</b>	ART101	0.5	 	The purpose of this course is to provide you with an introductory overview of the concepts, materials, and techniques of visual art. You will have the opportunity to explore the basic building blocks of art as well as various styles of art making. Our focus will be on exploration and growth, you will be encouraged to try new things, experiment, and make mistakes!
<b>Yearbook &amp; Design (1)</b>	ART420	1		This is a year-long class that produces the school yearbook. This is a wonderful opportunity for students to exercise their creativity while developing new skills in design, photography, copywriting, and project management. Creating the yearbook is a fun process, and the result of all the effort is a product the students can be proud of.
<b>Photography (1)</b>	ART430	0.5	 	In this photography class, you will learn everything you need to know to take breathtaking and professional-looking photos. We will cover basic concepts and practices of photography. You'll learn how to utilize all elements of composition, like perspective, depth, and balance. Students will need an iPhone (with a working camera), an android phone (with a working camera), or a digital camera to take this course.
<b>AP 2D Art &amp; Design</b>	ART440	1		This course is designed for students who are seriously interested in the fine arts concepts and would like to further develop their skills, composition, and execution of ideas. AP Art is not based on a written exam: alternatively, students submit portfolios for evaluation at the end of the school year. In building their portfolio, students will experience a variety of concepts, techniques, art mediums, and approaches to help the AP student develop versatility in their problem-solving skills. Students are required to develop a body of work for the concentration section of the portfolio that investigates the students' interests and units of study. The art elements and Principles of Design will be further applied. Other areas of emphasis are studio habits, art history, sketchbook entries, and reflective writing.
<b>Intro to Programming</b>	CS004	1	 	In this one semester course, students will learn foundational aspects of cybersecurity focusing on the CIA Triad of Internet Security, typically analyzing real-life scenario of security breaches or potential for breaches and how to protect against them. Topics include jobs in cybersecurity, cyber

\*  = Asynchronous  = Hybrid  = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS











## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				hygiene, the basics of encryption, software security, and networking fundamentals and security. This course utilizes both the CodeHS web-based platform and Schoology for curriculum content.
<b>Cybersecurity</b>	CS005	0.5	<b>H</b> <b>L</b>	This is a full year course that covers basic topics in technology past, present, and future. In many ways, you will know more about the technology behind computing than the average person after completing this course. Main topics include a bit of computing history, the low level language of Binary, character sets of ASCII and Unicode, encryption and data security via Parity, and programming in Python, HTML, CSS. Students build and create real world working programs and analyze their skills by completing reflective reports on their projects, just as it is done when working in programming teams in industry.
<b>Bio Intensive</b>	ELE105	0.5	<b>L</b>	This course is designed for students who have previously failed the grade 10 Biology MCAS test and need to pass it for graduation. Guidance counselors and the Director of Student Success select students for this course based on need.
<b>English I</b>	ENG111	1	<b>H</b> <b>L</b>	This course focuses on communication - how we use words to express ourselves and influence the world around us, as well the ways in which others communicate with us through written language. We will be reading works by various authors, ranging from William Shakespeare, Ray Bradbury, Sue Monk Kidd, and Jacqueline Woodson. We will also be sharing our ideas about these texts with each other, through critical and reflective writing, close-reading, and discussion. My goal is that we can have critical, insightful conversations about the texts, their reflections on real life, as well as working towards becoming skillful writers and critical readers.
<b>English I Honors</b>	ENG112	1	<b>L</b>	Students enrolled in English I Honors read supplemental texts and use resources to engage in additional writing and discussion opportunities. These opportunities allow students to deepen their understanding of concepts taught in English I.
<b>English II</b>	ENG211	1	<b>H</b> <b>L</b>	In English II, students learn how the human experience - real life - is the foundation of the best stories, plays, poems, and articles. In each unit of the course, students explore a specific aspect of the human experience such as laughter, obstacles, betrayal, and fear. Through the study of

\* **A** = Asynchronous    **H** = Hybrid    **L** = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				literature, nonfiction, and life, students explore what it means to be human, what it means to be fulfilled, triumphant, empowered, and transformed.
<b>English II Honors</b>	ENG212	1		Teacher recommendation required. Students expand on the concepts addressed in the English II course by reading supplementary literature which addresses common themes. Students engage in discussion, writing and projects to demonstrate a deep understanding of aspects of the human experience.
<b>English III</b>	ENG311	1	  	Students in English III analyze literature from various periods throughout American history. Students will read, write, engage in discussion, and conduct projects to examine issues of justice, freedom, and the American Dream.
<b>English III Honors</b>	ENG312	1		Students in English III Honors engage in advanced coursework that prepares them for AP level courses in the future.
<b>English IV</b>	ENG411	1	  	Why do people do what they do? English IV you will give you a front row seat to study of the motives that have driven people's actions for centuries. Along the way you will encounter epic heroes defying danger, tormented minds succumbing to the power of greed and ambition, enlightened thinkers striving for individual rights and freedoms, sensitive souls attempting to capture human emotion, and determined debaters taking a stand on critical issues. You will read to analyze the way language is used to express human motivation and research to examine the results of actions in the real world. The lessons in each module will give you the tools you need to gain insights from what you read and to use your knowledge in creative and analytical writing.
<b>English IV Honors</b>	ENG412	1		Students in English IV Honors engage in advanced coursework to prepare them for the rigors of college composition courses.
<b>AP Language and Composition</b>	ENG520	1		This course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. They read and analyze rhetorical elements and their effects in nonfiction texts -

\*  = Asynchronous     = Hybrid     = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS









## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				including images as forms of text - from a range of disciplines and historical periods. This course aligns to an introductory college-level rhetoric and writing curriculum. There are no prerequisite courses for AP English Language and Composition. Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences.
<b>Wellness 9</b>	HPE102	0.5	<b>L</b>	A skills-based approach to health and physical education to help prepare you for success by supporting the development of skills and acquisition of knowledge you need now and in the future.
<b>Couch to 5K</b>	HPE810	0.5	<b>H L</b>	This course will run alongside the Music class "Podcast: Couch to 5K." Whether you like to walk, run, bike, or perhaps skateboard or rollerblade, join us in this couch to 5k physical education course. You will choose to either train to complete a 5k (3.1 miles) OR focus on the concepts of coaching someone to complete a 5k, throughout the semester. There will be elements of music production in this course.
<b>Circuit/Resistance Training</b>	HPE820	0.5	<b>H L</b>	This course is designed to give students the opportunity to learn resistance training concepts and techniques. Students will learn the basic fundamentals of circuit training, strength training, aerobic training, and overall fitness conditioning.
<b>Yoga</b>	HPE840	0.5	<b>H L</b>	This course is designed to introduce students, safely and accessibly, to the basic postures, breathing techniques, and relaxation methods of yoga.
<b>Nutrition</b>	HPE860	0.5	<b>H L</b>	This course is designed to provide students with an understanding of the fundamental concepts of functional nutrition. Introducing students to micro and macronutrients, reading and interpreting food labels, sports nutrition, and understanding how food can affect our mood.
<b>World History</b>	HST111	1	<b>H L</b>	Students will explore important themes and events in world history. You will learn key skills to help you with this exam, and how to think like a historian. Some of the skills you will learn include critical thinking, examining, and analyzing primary and secondary sources, how to synthesize information, apply knowledge to answer broad questions, and defend your arguments in essay form.

\* **A** = Asynchronous    **H** = Hybrid    **L** = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS





## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
<b>World History Honors</b>	HST112	1	 	Teacher recommendation required. Students work on World Hist 1 content while completing more challenging and rigorous supplemental and enrichment work. Higher work and participation expectations. See World Hist 1 for content description.
<b>US History I</b>	HST211	1	  	In this course, students will explore the history of the United States and analyze the cause and effect in historical events. They will investigate history by using the tools of a historian to examine the historical, geographic, political, economic, and sociological events that influenced the development of the United States. Students will imagine what it was like to live in the past by reading the stories from the people who experienced it. This course begins with the engaging stories of what brought the earliest American colonists to the New World and ends with America's Participation in WWI. Engaging in this study allows students to recognize the themes of history that span across centuries and leads to a greater appreciation of the development of the United States and the resulting impact on world history.
<b>US History I Honors</b>	HST212	1		Teacher recommendation required. Students work on AM Hist 1 content while completing more challenging and rigorous supplemental and enrichment work. Higher work and participation expectations. See Am Hist 1 for content description.
<b>US History II</b>	HST311	1		The United States began as an experiment in freedom and democracy. Since its establishment, the country and its people have endured social, political, and economic revolutions. In this course, students will investigate the people, events and ideas that have shaped the United States from the end of the WWI through Current Events. Students are asked to analyze and evaluate decisions made by political, business, and military leaders. Emphasis is placed on connections between events of the past and present. This course also gives students the opportunity to conduct research and apply their learning to current, real-world problems.
<b>World History II</b>	HST411	1		Live course. Students will explore important themes and events in world history from the Age of Enlightenment to the present day. The social and political revolutions that followed as a result of the Age of Enlightenment are topics covered in this course, as well as the transformation from an agricultural to an industrial world and the many changes that resulted from that shift. The interconnectedness of nationalism and colonialism and the two massive world wars that were the

\*  = Asynchronous     = Hybrid     = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS


## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				end result are also covered topics. As you explore the modern era, students learn about developments in today's world and the implications that historical events have on each of us. You will learn key skills to help you analyze and think like a historian. Some of these skills include critical thinking, examining and analyzing primary and secondary sources, how to synthesize information, application of knowledge to answer broad questions, and defending your arguments in essay form.
<b>AP US History</b>	HST540	1		Live, Hybrid and Async options. USI pre-Requisite- Review USI AP Frameworks Content then focus on the rest of U.S. History from the End of the WWI through today. Investigate the people, events, and ideas that have shaped the United States while applying. We will explore important themes and events in US History in order to prepare you for the AP US History exam. You will learn key skills to help you with this exam, and how to think like a historian. Some of the skills you will learn include critical thinking, examining and analyzing primary and secondary sources, how to synthesize information, apply knowledge to answer broad questions, and defend your arguments in essay form.
<b>Psychology</b>	HST620	0.5		This semester-long engages students in the study of the mind and mental health. Students will explore various introductory psychology topics.
<b>Atlantic History: Then &amp; Now</b>	HST685	0.5		The semester-long course, suggested for juniors or seniors, and perhaps sophomores, will focus on the social, political, economic, and cultural exchanges and interactions between the Americas, Africa, and Europe between the 1400s to the late 1800s and into the 1900s, and the legacies of these interactions into the modern day. The course will explore social justice issues during this time period such as contact and conquest, slavery and abolition, and revolutions in the Americas that sought to bring disparate voices into the political and social sphere, such as the Haitian and Latin American revolutions for independence.
<b>Math Strategies</b>	MAT105	0.5		This course is designed for students who have previously failed the grade 10 Math MCAS test and need to pass it for graduation. Guidance counselors and the Director of Student Success select students for this course based on need.

\*  = Asynchronous     = Hybrid     = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

### 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
Essentials of Algebra I	MAT110	1		Students in this course will apply and extend their knowledge of Algebra concepts from the middle grades.
Algebra I	MAT111	1		Algebra I emphasizes the importance of algebra in everyday life through hundreds of real-world examples. Assessments are designed to ensure that your understanding goes beyond rote memorization of steps and procedures. Upon successful course completion, you will have a strong foundation in Algebra 1 and will be prepared for other higher-level math courses. (An Honors Algebra I option is also available - same course description with additional work through an honors level project).
Algebra I Honors	MAT112	1	L	Students in Algebra I Honors will engage in advanced study of Algebra I topics through honors projects.
Essentials of Geometry	MAT210	1	L	Live. In this Geometry course, students will apply and extend their knowledge of geometry from the middle grades. Instructional time will focus on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) solve area and volume problems of two dimensional and three dimensional shapes; (4) solve right triangles using Pythagorean Theorem, special right triangles and trig ratios; (5) know and apply basic geometric theorems; and (6) apply and extend their knowledge of probability
Geometry	MAT211	1	L,H	Live. In this Geometry course, students will formalize and extend their knowledge of geometry from the middle grades. High school geometry students will explore more complex geometric situations and deepen their understanding of geometric relationships by presenting and considering formal mathematical arguments including proofs. Students will use algebraic reasoning to solve problems in this course and will develop their spatial and logical reasoning.  Instructional time will focus on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume

\*  = Asynchronous     = Hybrid     = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				formulas; (4) solve right triangles using the Pythagorean Theorem, special right triangles and trig ratios; (5) prove basic geometric theorems; and (6) extend work with probability.
<b>Geometry Honors</b>	MAT212	1	L,H	<p>Live. Teacher recommendation required.</p> <p>In this Geometry course, students will formalize and extend their knowledge of geometry from the middle grades. High school geometry students will explore more complex geometric situations and deepen their understanding of geometric relationships by presenting and considering formal mathematical arguments including proofs. Students will use algebraic reasoning to solve problems in this course and will develop their spatial and logical reasoning.</p> <p>Instructional time will focus on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) solve right triangles using the Pythagorean Theorem, special right triangles and trig ratios; (5) prove basic geometric theorems; and (6) extend work with probability. In addition, this honors level course will include extension topics. The extension concepts will go beyond the 2017 MA Math Framework and will help students make deeper connections between and among various mathematical domains.</p>
<b>Essentials of Algebra II</b>	MAT310	1	L	Students in this course will apply and extend their knowledge of Algebra I concepts from the ninth grade.
<b>Algebra II</b>	MAT311	1	L,H	Live. Starting with a review of basic algebra, you will learn polynomials, quadratic equations, exponential and logarithmic relations, and probability and statistics. Throughout the course, these mathematical concepts are applied to everyday occurrences to demonstrate how the world around us functions. (An Honors Algebra II option is also available - same course description with additional work through an honors level project).
<b>Algebra II Honors</b>	MAT312	1	L	This course builds upon algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-

\*  = Asynchronous  = Hybrid  = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

### 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				ended problems and thinking critically. Topics include functions and their graphs, quadratic functions, inverse functions, advanced polynomial functions, and conic sections. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; boolean algebra; and matrices.
<b>Precalculus</b>	MAT411	1	L	The Pre-Calculus course involves a thorough investigation of numerous and varied mathematical concepts to fully prepare students for the study of calculus. Beginning with a review of functions (linear, quadratic, polynomial, rational, logarithmic, exponential, inverse, trigonometric), and their applications (vectors, polar coordinates, parametric equations, de Moivre’s theorem, etc.), the course includes treatments of sequences and series, probability, and combinatorics, with an emphasis on proof and mathematical rigor. Students will learn to manipulate and apply more advanced algebraic techniques while building on topics introduced in Algebra II. Through videos and interactive lessons, students will learn concepts in standard, advanced, and analytic trigonometry, as well as precalculus—a strong pre-university foundation for students who intend to study calculus.
<b>Statistics</b>	MAT620	1	L	Live. Topics discussed include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests with applications in the real world.
<b>Consumer Math</b>	MAT630	1	L,H	Consumer Mathematics will apply math and problem-solving skills to everyday, real-world scenarios involving money. Students will use math and algebra operations to understand how money is earned, spent, and saved. Students will discover valuable skills to make themselves savvy and conscientious consumers in today’s global market. Students will travel through a life span and explore how money can shape their life. They will learn about earning, saving, and spending so that they can make their money work for them! They will explore different career paths and education options. They will make sense of taxes, insurance, and income. They will buy their first car, rent an apartment, or get a mortgage. They will see how smart shopping at the grocery store and sticking to a budget can lead to a dream vacation! Students will learn to wisely manage money all the way through their retirement years.

\*  = Asynchronous  = Hybrid  = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

## 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
<b>Music Appreciation</b>	MUS101	0.5	L,H	Live. Explores listening to and analyzing many different genres of music and learning how to create our own music using websites such as Soundtrap.
<b>Podcast: Couch to 5k</b>	MUS410	0.5	L	This course will run alongside the PE class "Couch to 5K." Students will create a musical podcast to be used as a guided run. They will learn important elements of training for a 5K, as well as research topics related to their run, mindfulness, and music.
<b>Music Theory &amp; Production</b>	MUS420	0.5	L	This course focuses on the concepts and principles of music such as form, pitch, rhythm, and harmony. Students will create, write and listen to music as well as develop ear training for a deeper understanding of musical concepts.
<b>Earth and Space Science</b>	SCI100	1	L,H	Live. This laboratory course focuses on the study of space and the geologic and atmospheric forces that shape our world. Through experimentation and investigation, you will explore Earth's cycles, including the geosphere, cryosphere, atmosphere, and carbon cycle.
<b>STEM</b>	SCI111	1	L,H	Live. This course will introduce students to Engineering Design Processes in a 3D project based learning model. Students will learn how to: invent and improve products, processes and systems. We will be building, designing and drawing, as well as learning about various system processes and electricity. Students will be introduced to the complementary relationships between math, art, engineering, science and technology.
<b>Biology</b>	SCI211	1	L,H,A	Live. Explore the structure, function, diversity, and evolution of living matter with an in-depth look at the characteristics of living organisms.
<b>Biology Honors</b>	SCI212	1	L,H	Students in Biology Honors will be challenged with a more complex and in depth study of the principals of Biology.
<b>Chemistry</b>	SCI311	1	L,H,A	Live. This course provides a foundation for learning chemistry concepts, including scientific inquiry, interactive experiences, higher-order thinking, collaborative projects, real-world applications, and a variety of assessments.

\*  = Asynchronous  = Hybrid  = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

### 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
<b>Chemistry Honors</b>	SCI312	1	L,H	Students in Chemistry Honors will delve deep into chemistry concepts through advanced honors projects.
<b>Intro to Physics</b>	SCI411	1	L,H	Students will learn about basic topics such as motion, forces, energy, momentum, heat and heat transfer, waves, electricity, and magnetism.
<b>AP Physics 1</b>	SCI540	1	L	Learn about the foundational principles of physics as you explore Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory, simple circuits.
<b>Anatomy and Physiology</b>	SCI620	1	L,H	Live. Explore the human body and learn how you can help your body cope with many different situations. You will study the structure, location, and function of various systems within the human body and how these systems interact.
<b>Forensics</b>	SCI635	0.5	L	Live. Introduction to the study of Forensics. Everything from car accidents to serial killers. This elective is only open to 11th and 12th grade students. **Caution - this class can be too graphic for some students.
<b>Spanish I</b>	WLA102	1	L,H	Live. First year Spanish students will be taking a virtual trip to Spain, Cuba, Colombia, and Argentina. As they explore each country, a student blogger is there to help them learn about the place and its unique characteristics. And as they travel to each country virtually, they'll learn how to use the Spanish language in many practical and useful ways to communicate. They will learn how to greet people, introduce friends, and chat about home, family, school, and community. As they learn basic vocabulary and grammar skills, they will expand on their knowledge and learn to speak about more complex topics such as shopping, weather, sports, entertainment, and leisure activities. They will also explore the cultures of Spanish speaking countries by learning about geography, food, celebrations, and traditions from each place.
<b>Spanish II</b>	WLA202	1	L,H	Live. Second year students will travel virtually through Central America and the Caribbean, spending time in museums, traffic jams, and even the hospital. They will broaden their Spanish vocabulary and knowledge of grammar. They will meet people from many different countries and cultures. The purpose of this course is to strengthen Spanish skills in listening, inter-cultural

\*  = Asynchronous  = Hybrid  = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS

### 2023-2024 GCVS High School Course Listings

Course Name	Course Number	Credit Hours	Platform*	Description
				connections as they experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world.

DRAFT

\*  = Asynchronous  = Hybrid  = Live

THE COURSES LISTED ARE OFFERED INTERNALLY BY GCVS HIGH SCHOOL TEACHERS