

Course	Department	Grade Levels	Credit	Format	Prerequisite	Graduation Credit?	School			Course Description
							AHS	MoHS	WAHS	
Physical Ed. III	Health & PE	11	1	Semester	PE 1 & 2	Elective Credit	x			Students will apply principles and concepts while mastering movement skills in an area of physical education. Students will design and implement a fitness program to support their area of concentration.
Physical Ed. IV	Health & PE	12	1	Semester	PE 3	Elective Credit	x			Students will apply principles and concepts while mastering movement skills in an area of physical education. Students will design and implement a fitness program to support their area of concentration.
Introduction to Coaching	Health & PE	11 & 12	1	Semester	Health & PE 1 & 2	Elective Credit	x			Students will learn the basic coaching principles for various sports from youth through high school level. Students also will learn basic sports rules and good sportsmanship behavior. They will develop daily practice plans and season schedules, and learn to communicate effectively and professionally with athletes and parents. Students will interview a variety of coaches and perform volunteer coaching.
Writing and Composition	English	9, 10, 11, & 12	1	Semester	None	Elective Credit		x		In preparation for the professional world, students will learn to write research papers, essays, resumes, business letters and other documents using standard citation of sources and correct formatting. Following diagnostic testing, students will engage in personalized grammar and spelling practice and in partner or small-group peer editing.
Poetry Writing	English	11 & 12	1	Semester	English 9 & 10	Elective Credit		x		Exposes students, through their own creative writing, to the world of poetry. Develop a vocabulary that will expand the power of their own voice, especially through the use of metaphor. Increase student awareness of the sounds of language and develop analytical skills. Examine the connections between man and nature.
Myth and Fantasy: Elements of Culture	English	10, 11 & 12	1	Semester	English 9	Elective Credit	x			This course explores oral traditions and mythology of various cultures; students will study the genre of fantasy from its historical context and its mythic tradition roots. Concurrently, students examine the development of stories in their contemporary world.
Exploring Satire from Swift to Colbert	English	9, 10, 11, 12	1	Semester	None	Elective Credit	x			This course explores the diverse cultural values that spark debate and satire. By looking at responses to historical events, students may draw comparisons and connections to contemporary satire as it appears in graphic novels, political cartoons, and other sources.
Seriously Funny: A Study of Shakespeare's Comedies	English	10, 11 & 12	1	Semester	English 9	Elective Credit	x			The business of this course is to tease out the distinction between laughter and comedy by examining Shakespeare's use of laughter-evoking scenes with dramatic story-telling. Further, students will explore Shakespeare's comedies to discover how he uses the comedic form to articulate his vision of human nature and society.
Book Club	English	9, 10, 11, 12	1	Semester	None	Elective Credit			x	Will provide students with an opportunity to continue development in reading comprehension, oral sharing of thoughts/feelings and written sharing of thoughts/feelings. Could be organized around "great idea" topics, with students reading books of their own choice and at their own level.
Linguistics	English	9, 10, 11, 12	1	Semester	None	Elective Credit			x	Designed for students at the advanced and honors level who desire to deepen their understanding of the complexities of the English language. Will explore how the language has evolved over hundreds of years; current standards for spelling, grammar, and syntax; and ways in which English has been influenced by other languages and vice versa. This is not a remedial class, but students who struggle with grammar and spelling will find this knowledge to be useful in improving their skills in written expression.

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Honors Trigonometry	Math	all	1	Semester	Algebra II	Math Credit		x	The course involves a comprehensive study of trigonometric definitions, applications, graphing, and solving trigonometric equations and inequalities. There is additional emphasis on oral and written communication related to the language of mathematics, logic of procedure, and interpretation of results. Students use graphing calculators, computers and other materials in learning activities. Further, graphing utilities enhance students' understanding of realistic applications through modeling and aid in the investigation of trigonometric functions and their inverses. They also provide a powerful tool for solving/verifying trigonometric equations and inequalities.
Medical Terminology	CTE	10, 11 & 12	1	Semester	Health & Medical Sciences	Elective Credit	x	x	Instruction focuses on concepts, terms, and abbreviations relevant to health care language. Topics introduce each body system's anatomy and physiology, and progress through pathology, diagnostic procedures, therapeutic interventions, and pharmacology.
Medical Systems Administration	CTE	11 & 12	1	Semester	None	Elective Credit		x	Students will learn how to use medical terminology and apply administrative procedures necessary to be productive employees in a health care environment. Students will learn how to manage office activities, enhance communication skills, identify legal and ethical issues in health care practices, manage financial functions, and enhance employability skills. The cooperative education or internship method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year with Martha Jefferson, UVA Medical Hospitals and other medical organizations.
Hospitality, Tourism, and Recreation	CTE	all	1	Semester	None	Elective Credit	x		Students focus on developing professional skills and using emerging technologies to prepare for diverse, global, career opportunities. The program offers instruction in the industries of food and beverage, travel and tourism, recreation and fitness, and lodging. The course will consist of classroom instruction and supervised on-the-job training if a cooperative education placement is available.
PVCC Principles of Management	CTE	12	1	Semester	Business Man.	Elective Credit	x		This course offers instruction in management and management functions including planning, organizing, directing, and controlling. Students will apply management principles to realistic situations managers encounter as they attempt to achieve organizational objectives.
PVCC Applied Management Principles	CTE	12	1	Semester	Business Man.	Elective Credit	x		This course focuses on management practices and issues; may use case studies and/or management decision models to analyze and develop solutions to management problems.
PVCC Web I	CTE	11 & 12	1	Semester	Web 1 & 2	Elective Credit		x	Students will enhance their web design skills acquired in Web Technologies I and II. HTML and CSS will be used as backbone design mechanisms, flash based sites will also be utilized. Additional programs used include JavaScript, PHP, and MySQL. Students will create dynamic webpages for the purpose of publication. Students will follow the guidelines and curriculum set forth by the teacher and PVCC. A total of 3.0 credits will be earned for college credit upon successful completion of the course.
Effective Studying, Test-Taking & Time Management	Misc	9, 10, 11, 12	1	Semester	None	Elective Credit		x	Students will benefit from increased performance by developing skills that promote academic success in high school and prepare them for higher education and professional life. Students will learn strategies consistent with learning style and personality inventories. They will practice organization of time and materials and learn to use techniques to succeed on objective and subjective tests.

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Biology / Ecology Cooperative	Science	10, 11 & 12	1 Verified Credit & 1 Science Credit (2)	Year- Long Blocked Together	None	Science Credit		x	Combines the curriculum of Biology I and Biology II-Ecology. Students will learn the concepts of Biology and Ecology using hands-on activities and labs. This course will provide students the opportunity to receive 2 science credits and an additional verified Biology credit. The Ecology curriculum will reinforce the concepts being taught in the Biology curriculum. Students will gain knowledge from the cell to the ecosystem throughout the year.
Geology / Earth Science Cooperative	Science	all	1 Verified Credit & 1 Science Credit (2)	Year- Long Blocked Together	None	Science Credit		x	Offers a foundation in the study of the geologic preocesses that have formed our world and the scientific skills used to observe and interpret it. Through an appreciation of earth's systems, students will be encouraged to be responsible citizens. This is a laboratory course in which the students will learn to use and apply the vocabulary of geology, oceanography, meteorology and astronomy. Through this course, students will have the opportunity to earn 2 science credits and a verified Earth Science credit.
Geology	Science	10, 11 & 12	1	Semester	Earth Science	Science Credit		x	Offers a foundation in the study of the geologic processes that have formed our world and the scientific skills used to observe and interpret it. In this laboratory course, students will learn to use and apply the vocabulary and technology of the geologist and earth scientist. The following topics will be covered: longitude and latitude, topographic maps, Earth's structure, plate tectonics, minerals, rocks, Virginia's geologic provinces, natural resources, weathering, erosion, soils and natural resources and comparative planetary geology.
Meteorology	Science	10, 11 & 12	1	Semester	None	Elective Credit	x		The course covers the composition and structure of the atmosphere, flows of atmospheric energy, and resulting motions produced from small to planetary scales. Instruction stresses the physical principles of atmospheric phenomena and their impacts on humans. Students examine current meteorological data to develop analytical methods.
Physical Oceanography	Science	11 & 12	1	Semester	Earth Science & Algebra II (can be concurrent)	Elective Credit	x		This course focuses on world oceans' physical characteristics including the formation of oceans, ocean floors, ocean circulation, wave characteristics, tides, seawater properties, and coastal dynamics. Students learn the history of oceanography such as modern oceanographic expeditions, discoveries and the JASON project. They also study related environmental issues.
Science in Literature & Film	English	9, 10, 11, 12	1	Semester	none	Elective Credit	x		Students concurrently study science-themed literature and films. They will research the scientific and cultural setting of both and contrast the scientific accuracy reflected in the literature/films with contemporary knowledge. Students will present their analysis of the literature and films through formal papers, oral presentations, and class discussions.
Introduction to Scientific Research	Science	all	1	Semester	Algebra II (concurrent)	Elective Credit	x		Students develop scientific research strategies to facilitate entering competitions such as the International Science and Engineering Fair and Virginia Junior Academy of Science. Students and Research: Practical Strategies for Science Classrooms and Competitions provide the class sequence and activities. The work of Julia Cothron, Virginia Mathematics and Science Center, Dr. Richard Rezba, Virginia Commonwealth University, and Dr. Ron Giese, College of William and Mary provide the course fundamentals.
Chemical Quantitative and Qualitative Analysis	Science	11 & 12	1	Semester	Algebra II & Chemistry	Elective Credit	x		Students learn the chemistry and laboratory techniques used in chemical quantitative and qualitative analysis. They use milligram balances, spectrophotometers, pH meters, potentiometers, centrifuges, vacuum filtration apparatus, distillation apparatus, and graphing calculators, and apply statistical measures to their findings. Students communicate results through oral and written reports.

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Spanish for Heritage Speakers	World Languages	all	1	Semester	Department Recommendation	World Language Credit		x		Emphasis will be placed on literacy in reading and writing. Students will learn the phonetic and verb systems and practice with level-appropriate texts and vocabulary lists as determined by diagnostic assessment.
Latin Through the Ages: from Antiquity to Today	World Languages	10, 11 & 12	1	Semester	Latin III or instructor permission	Elective Credit		x		This course will acquaint students with the Latin writings of historians, poets, scientists and thinkers who have lived over the past two millennia. Students will read in Latin selections from authors from antiquity through the 19th century. In reading and examining Latin writings, students both strengthen their handle on the Latin language and gain a further understanding of the history of the Western World. Students will also use Latin as a living language. Students will engage in Latin conversations covering a variety of topics. Students will model their conversational Latin on a variety of sources including Roman comedians, playwrights and letter writers. Students will become acquainted with modern uses of Latin such as legal language, medical terminology and taxonomy.
Germany from 800 AD to the Present	World Languages	10, 11 & 12	1	Semester	German IV	Elective Credit	x			This survey of German history and culture is a companion class to AP German and is offered on the A/B schedule. The focus is on contemporary events, politics, and issues affecting Germany and other German speaking countries, and provides a resource for students interested in German culture, history, art, literature, music, film, and German language development. The course prepares students both for the AP exam and German study in college.
Spanish for Business	World Languages	all	1	Semester	Spanish II or Department Recommended	Elective Credit	x			This multi-disciplinary approach to developing oral and written Spanish language fluency is geared toward students entering the employment world. Students prepare business letters, learn office procedures, and acquire specific vocabulary for working in health care, law enforcement, education and other business settings.
Introduction to Sign Language	World Languages	all	1	Semester	Department Recommendation	Elective Credit	x			The course introduces American Sign Language (ASL) fundamentals as used by the deaf community. It includes basic vocabulary, finger-spelling, numbers, syntax, and grammatical non-manual signals. Emphasis is on communication competence. Students also will acquire cultural knowledge and understanding of the deaf community. This course does not substitute for a World Language graduation requirement.
Guitar	Fine Arts	all	1	Semester	None	Elective Credit			x	Course will be self-paced to allow for different levels of proficiency. Performance opportunities will also be available.
PVCC Drawing	Fine Arts	11 & 12	1	Semester	None	Elective Credit			x	This comprehensive drawing class for the artist or non-artist will explore all types of drawing and spacial relationships. Using a variety of drawing tools & mediums, students will grow to understand depth, perspective, and illusion on a 2 dimensional surface. The majority of work can be completed in class. Students will keep a sketchbook and complete 2 outside assignments each 9 weeks.
Music Theory	Fine Arts	all	1	A / B Concurrer with AP Music Theory	None	Elective Credit		x		Will help students understand concepts and applications in music. Students will read and recognize musical concepts, understand musical notation, and employ technology for meaningful expression in music.

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AP Music Theory	Fine Arts	all	1	A / B	Music Theory or Teacher Recommendation	Elective Credit		x	Will help students understand concepts and applications in music. Students will read and recognize musical concepts, understand musical notation and employ technology for meaningful expression in music. Students will sight-read, analyze chord progressions, read and compose orchestration, and master additional complex skills for success on the AP exam.
Ballet I	Fine Arts	all	1	Semester	None	Elective Credit		x	Will offer students a sound technique and base to understanding and performing dance and ballet. Not only will this course offer a daily ballet class (strenuous workout/physical activity) but students will be introduced to dance through performance (end semester dance production), understanding cultural context and history of dance, judgement and criticism of dance and aesthetics. Students will develop skills for expressive, artistic dance performance. Course could be for students of diverse ability.
History of Musical Theatre	Fine Arts	all	1	Semester	None	Elective Credit	x		Students study the origin and development of musical theatre over the past 100 years beginning with vaudeville and silent movies. Theatre enthusiasts, Broadway lovers, and potential spring-play participants will benefit from the course.
Photography IV	Fine Arts	all	1	Semester	Photography III	Elective Credit	x	x	Advanced photography students continue developing photography and photo altering techniques using Photoshop and other programs. Students work at an independent level to create a professional level portfolio while applying techniques for personal creativity.
AP Comparative Government and Politics	Social Studies	11 & 12	1	A / B	World History	Elective Credit	x	x	Students acquire a theoretical framework to compare international political systems. The course follows the AP curriculum focusing on the history, politics, and institutions of six countries: Britain, Russia, China, Mexico, Iran and Nigeria. Students prepare to take the spring AP exam. Additionally, this course guides students' participation in the global community and economy.
AP Macro Economics	Social Studies	10, 11 & 12	1	A / B	World History	Elective Credit	x		Instruction provides a comprehensive understanding of the economics principles applicable to individual decision makers and an economic system. Topics include: nature and functions of product markets; factor markets; role of government in promoting economic efficiency and equity; national income; price-level determination; economic performance measures; financial sectors; stabilization policies; economic growth; and international economics.
Issues of the Modern World	Social Studies	11 & 12	1	Semester	World History II	Elective Credit	x		Both the students and teacher contribute to determining the course content. Teacher instruction may include: current events and topics in global and American society and politics; modern, global economic issues; modern terrorism, its roots, causes, examples and reactions; Twentieth and Twenty-first Century nationalism; and the changing relationship between contemporary developed and developing nations. Students select areas to research and analyze from class discussions of world history and modern society topics, issues and contemporary developments. The course includes a significant student-directed research and analysis component.