

PVHS 2023 - 24 Elective Course Offering

Department	Course Name	Description
AGRICULTURE	AG BUSINESS COMMUNICATION + AHC AG 150 (10-11) *g- College Prep Elective	AG Business Communication is a first-year concentrator class designed to promote and develop communication skills required in the agriculture industry. FFA participation and SAE (Supervised Agriculture Experience) will be part of the grade for this course. Spring Intro to Ag Business is an AHC CE class that provides a basic understanding of the business and economics in the agricultural industry.
	AG MECHANICS (9-11) g- College Prep Elective	Designed to provide lab experiences, safe operation of power tools, build projects, oxyacetylene, & Arc and MIG welding.
	ADV. AG MECHANICS (9-11) *g- College Prep Elective	Expands on the basic skills learned in AG Mechanics. Students will begin plan reading, creating a bill of material, and cut lists. A continuation of welding skills, out of position welds and new welding rods are introduced. Fabrication is a major component, as well as job training. PR
	ADV. FLORAL DESIGN (10-12) *g- College Prep Elective	Students will be mastering and expanding on the basic skills learned in Floral Design. Students will pursue a deeper understanding and application of principles of Floral Design. Students will participate in FFA activities and maintain an SAE. PR
	AG LEADERSHIP & COMMUNICATIONS (9-11) & AHC AG 157 (9-11) *g-College Prep Elective	Ag leadership is designed to allow the student to develop leadership skills by directing the work of the PVHS FFA Chapter. Activities include running meetings, coordinating school and community activities, public speaking, and volunteerism. Spring semester AHC AG 157 course is organized to give students an in-depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day business.
	ADV. COMMUNICATION & AG LEADERSHIP (10-12) *g-College Prep Elective	Second year capstone CTE Pathway course that expands on AG leadership and communication. PR
	ANIMAL SCIENCE + AHC AG 152 (10-12) *g-College Prep Elective	Focuses on the areas of mammalian production/anatomy/physiology, reproduction/nutrition/respiration/genetics, and animal care. The spring AHC AG 152 class prepares students for major in Agricultural, Animal, or Veterinary Science.
	FLORAL DESIGN (9-12) *g-College Prep Elective	Introduces students to career possibilities and background knowledge to be successful in the floral industry. Topics include principals and elements of design, selection and storage of plant materials, construction of corsages and various arrangements, drying flowers, pricing, marketing, and customer service. Students will participate in FFA activities and maintain an SAE.
	VETERINARY SCIENCE (11-12) *d- Meets UC Lab Science Req.	Students learn large and small identification and tools used in the industry, as well as anatomy & physiology, animal health & disease, animal behavior, and client communication to prepare for employment in Veterinary careers. PR
	AHC FRUIT SCIENCE (FALL) + AHC HORTICULTURE (SPRING) (10-12) *g- College Prep Elective	These two AHC CE classes focus on the development of major fruit, vine, and nut crops in California. Production practices including fertilization, pollination, irrigation, harvest, storage, processing, marketing, pest management, and pruning. General course in environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries
BUSINESS	AHC BUSINESS 101 & AHC ENTREPRENEURSHIP 101 (9-11) *g-College Prep Elective	These two AHC CE classes provide a multidisciplinary examination of how economic systems and financial institutions affect a business organization's policy and practices. Primary areas of study include leadership, human resource management, organized labor practices, marketing, financial practices, and the stock market. Entrepreneurship 101 uses a project-based approach to discover methods for starting businesses and writing industry quality business plans.
	COMPUTER APPLICATIONS (9-12) *g-College Prep Elective	Students will learn & create a variety of documents using various applications and programs such as MS Word, Internet Explorer, Outlook, PowerPoint, Excel, Access & Publisher while developing computer skills.
	WEBSITE PROGRAMMING & DESING (10-12) *g-College Prep Elective	Design and build websites from scratch while learning programming/coding, design principles, and the project design & development process. Introduction to higher level computer concepts, programming techniques, and web page design using HTML & CSS, JavaScript, and Dream Weaver. Precision certification upon successful completion of course.

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BUSINESS CONTINUED	GAMING TECHNOLOGY (9-11) *g-College Prep Elective	Learn a variety of technical skills & design principles to use while developing computer games. Utilize various software platforms & websites to create games. Explore the fundamentals & history of gaming and the principles of how computers and the internet work, game/app design & structure, and experiment with programming. Precision certification upon successful completion of course.
	ACCOUNTING & FINANCE (10-11) *g-College Prep Elective	Develop & understand the operation of business financial management and accounting, financial records, journals, & statements
	PERSONAL FINANCE (11-12) *g-College Prep Elective	This course will cover the following topics: Checking, Saving, Types of Credit, Managing Credit, Paying for College, Budgeting, Investing, Financial Pitfalls, Career, Taxes, Insurance, Behavioral Finance, Mini Units and Bonus Lessons. PR
	INTERVENTION THROUGH TECHNOLOGY (ITT) (11-12)	A course to assist students to pass previously failed courses through the online PLATO program. Improve reading, writing, and math. Include entry-level computer skills, structured writing, and job skills with technical focus.
FAMILY CONSUMER SCIENCE	CULINARY ARTS 1 (10-11) *g-College Prep Elective	Culinary techniques for home cooking and professional applications. Nutrition, food science, safe practices and measurements will be covered. Eligible for Food Handlers license upon successful completion of the course/exam.
	CULINARY ARTS 2 (11-12) *g-College Prep Elective	Learn advanced food prep and meal management techniques catering and use of professional equipment. Careers in the food industry will be explored. Eligible for ServSafe license upon successful completion of the course/exam. PR
	APPAREL CONSTRUCTION & DESIGN 1 & AHC FASH 110 (10-11) *f-Visual & Performing Arts	Instruction in garment construction and sewing techniques. Use of a sewing machine, and methods of clothing construction. AHC FASH 110 is an introduction to the fashion industry and techniques for constructing woven garments with the single needle machine, industrial single needle machine, and overlock serger machine.
	APPAREL CONSTRUCTION & DESIGN 2 A/B (10-12) *f-Visual & Performing Arts	This is a second-year course where student learn varied techniques in clothing construction including sewing repairs, pattern construction, window display and specialty sewing machines. Students will also operate a small clothing business. PR
	DEVELOPMENTAL PSYCHOLOGY OF CHILDREN (10-11) *H- Meets Health Req. *g-College Prep Elective	A comprehensive study of the developmental stages of children from conception through early adolescence. For students who are interested in a career involving children.
	INTRO TO FCS & HEALTH (9-12) *H- Meets Health Req.	Basic introduction to clothing & textiles, creative arts, safety & health, reproduction, family planning, parenting, drug & substance abuse, personal health & appearance, foods & nutrition, personal & relationship development, & career related opportunities.
	RELATIONSHIP & FAMILY/CHILD & FAMILY (10-11) *H-Meets Health Req. *g-College Prep Elective	Provides knowledge of preparation for marriage/family roles/responsibilities, & marriage adjustments and in making decisions related to family living. Develop abilities for parenting, maintaining individual & family health, & child development.
	CAREERS IN FAMILY & HUMAN SERVICES (11-12) *g-College Prep Elective	This is a second-year course that provides background knowledge and occupation-specific training focusing on the development of counseling and mental health services, as well as family and community services careers. PR
INDUSTRIAL TECHNOLOGY	MECHANICAL DRAWING 1 (9-12) *g-College Prep Elective	A course for students interested in entering engineering, construction, and architectural fields. It offers an opportunity to learn traditional mechanical drawing with pencils, T-squares, and triangles, as well as drawing on computers using AutoCAD and 3D printing.
	SMALL GAS ENGINES (9-11) *g-College Prep Elective	Students learn how an engine works, safe shop procedures, how to use tools, basic maintenance, troubleshooting & repair procedures. Students will work on small air-cooled engines, such as lawnmowers, generators and outdoor power equipment.
	ADVANCED SMALL ENGINES (10-12) *g-College Prep Elective	Students will explore more advanced engine systems and develop more advanced skills with small, air-cooled engines including more advanced diagnostics and repair. PR
	WOOD (9-11) *g-College Prep Elective	This course is designed to introduce students to general woodworking practices. Students will learn about safety, use hand and power tools, and woodworking machinery. This course includes building wood projects in a shop environment.
	WOOD TECHNOLOGY (10-12) *g-College Prep Elective	This course is part of a sequence of courses in wood construction and theater set construction. Wood Tech provides students with a foundation of knowledge, skills and experiences in wood technology and principles of design. This includes building wood

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		projects and theater set construction. This course prepares students for the next level in their education and will advance them toward a skilled position in this career path. PR
INTERNATIONAL LANGUAGES	FRENCH 1 (9-12) *e-International Language	Designed to teach students to communicate in French at a novice level.
	FRENCH 2 (10-12) *e-International Language	Improve skills gained in French 1. Increase knowledge and understanding of Francophone culture. PR
	FRENCH 3 (11-12) *e-International Language	Build on the skills in French 2. Improve fluency in written and spoken French, in both formal and informal settings. PR
	AP FRENCH LANGUAGE & CULTURE (12) *e-International Language	Course is conducted entirely in French. Builds on knowledge acquired in French 1, 2, & 3 and prepares students for the AP French Language and Culture Exam. PR
	SPANISH 1 (9-12) *e-International Language	Designed to teach students to communicate in Spanish at a novice level.
	SPANISH 2 (9-12) *e-International Language	Builds on skills acquired in Spanish 1. Expand topics and situations where students can communicate in Spanish more fluently. PR
	SPANISH 3 (9-12) *e-International Language	Designed to allow students to internalize the language that they have studied in Spanish 1 & 2. Students will increase vocabulary and their ability to communicate beyond themselves. PR
	SPANISH FOR SPANISH SPEAKERS 1 (9-12) *e-International Language	For students who already speak Spanish in the home. This course is taught primarily in Spanish with English explanation as needed. Designed for students who have a desire to improve their Spanish language & literacy skills.
	SPANISH FOR SPANISH SPEAKERS 2 (10-12) *e-International Language	Designed to increase ability to write in Spanish through intensive practice in formal and informal styles. Use interpersonal, interpretive, and presentational modes with advanced study of grammar & structure. Course conducted entirely in Spanish. PR
	AP SPANISH LANGUAGE & CULTURE (10-12) *e-International Language	Language acquisition and preparation for the depth & complexity of the Spanish AP exam. Develop sophisticated skills of reading/writing/speaking & listening at an advanced college level. Includes formal presentational speaking and essay writing. PR
	AP SPANISH LITERATURE & CULTURE (11-12) *e-International Language	Builds on skills acquired in AP Spanish. Prep for AP Spanish Lit. Exam. Read Spanish & Hispanic literature from 14th - 20th century. Analyze, discuss & interpret a poem, play or narrative through its figures of speech, tone, genre, style, characters, and themes. PR
CINE Y TEATRO (11-12) *e-International Language	This class builds Spanish skills, including grammar and writing. It explores themes such as race, ethnicity, gender, sexuality and class through a critical analysis of Cinema in Spanish. Course conducted entirely in Spanish. PR	
PHYSICAL EDUCATION	PE 3 WEIGHT TRAINING & FITNESS (11-12)	A PE course that focuses on Personal Fitness, using weights, cardio, core training, stretching and plyometric.
	PE 3 FITNESS FOR LIFE (11-12)	This course will concentrate in the area of aerobic activities: aerobic dance, cycling, running, walking, and swimming.
	PE 4 ADVANCED WEIGHTS TRAINING & FITNESS (11-12)	Students will discover different types of training specific to a sport or desired goal. *Note: Class starts at 7:45 a.m.
SOCIAL SCIENCE	ASB LEADERSHIP (9-12) *g-College Prep Elective	A student council designed class to help the student prepare for planning ASB events, using team building, and communication skills.
	AP PSYCHOLOGY (11-12) *g-College Prep Elective	Course topics include perception, development, senses, sleep/dreams/consciousness, and psychological disorders. Explore the psychological perspectives that attempt to explain & help understand human behavior. (Seniors Have Priority)
VISUAL & PERFORMING ARTS	CONCERT CHOIR (9-12) + JAZZ CHOIR (9-12) *f-Visual & Performing Arts	Concert Choir is for students who have had previous choral background and successfully complete an audition of minimum basic skills. Perform advanced choral literature & increase their understanding and appreciation of music. Jazz Choir focuses on vocal improvisation and performing with musicians.
	DIGITAL ARTS 1 (9-12) *f-Visual & Performing Arts	Explore the field of fine arts and digital graphic design. Learn various methods of expression utilizing electronic equipment such as digital drawing tablets, professional cameras, and industry-leading Adobe Photoshop and Illustrator software.
	DIGITAL ARTS 2 (10-12) *f-Visual & Performing Arts	A course for students with continued interest in fine arts and digital graphic design utilizing electronic equipment such as digital drawing tablets, professional cameras, and a commercial printer. Expand your skillset with a deeper dive into industry-leading Adobe Photoshop and Illustrator software.
	DIGITAL ARTS 2 (10-12) (continued)	Create your own portfolio to help pursue a career in the arts and digital arts-related careers. PR

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VISUAL & PERFORMING ARTS CONITNUED	MARCHING CONCERT BAND (9-12) *f-Visual & Performing Arts	Offered to performers interested in the following instruments: flute, clarinet, saxophone, oboe, bassoon, French horn, trumpet, trombone, baritone, tuba, and percussion/drums. Performance based class preparing for extracurricular events.
	GUITAR (9-12) *f-Visual & Performing Arts	Intro course for students interested in learning to play the acoustic guitar, or to improve their existing skills. Guitars are provided for classroom use only.
	BEGINNING PIANO (9-12) *pending A-G	Study the elements of music (melody, harmony, rhythm, tone & form) to create style. Introduction to different genres of music, historical periods, roles of musicians of each era, basic music theory & piano techniques.
	SONGWRITING & MUSIC PRODUCTION (10-12) *f-Visual & Performing Arts	Opportunities to create music of your own. Develop skills in composing, arranging, and singing, listening, and analyzing popular music. Basic proficiency on an instrument is encouraged, but not required.
	MUSIC HISTORY (9-12) *f-Visual & Performing Arts	Designed to develop a sense of how music fits into history from various cultures dating back to the Middle Ages to current.
	THEATER ARTS 1 (9-12) *f-Visual & Performing Arts	Introduces the basic skills of theater arts in six areas: 1) Acting, performance skills, articulation, projection, expression, and self-confidence; 2) Theater History; 3) Play reading and writing 4) Technical theater, career set design, costuming & make-up 5) Introduction to filmmaking 6) Dance.
	THEATER ARTS 2 (10-12) *f-Visual & Performing Arts	Gives an in-depth look into the following 6 areas 1) Acting, performance skills, character development, and expression 2) Theater History; 3) Play reading and writing 4) Technical theater, career set design, costuming & make-up 5) Filmmaking 6) Dance.PR
	TECH THEATER 1 (10-12) *f-Visual & Performing Arts	Students interested in theatrical and set design for school productions. Learn about lighting, sound, costumes, stage management, and theater equipment.
	TECH THEATER 2 (11-12) *f-Visual & Performing Arts	For students who have completed Technical Theater 1. Students will learn advanced skills in sound, lighting equipment, and design in preparation for the school productions. All students will be required to work on the school drama productions. PR
	INTRO TO ART (9-12) *f-Visual & Performing Arts	Focuses on the elements of art, foundation of art history and the principles of design through the use of various media.
	PAINTING (10-12) *f-Visual & Performing Arts	Basic painting techniques with an intensive study of color theory. Learn to create paintings, which indicate depth, volume, & form. Intro to art recommended as PR.
SCIENCE	AP BIOLOGY (11-12) *g-College Prep Elective	The application of laboratory skills, including interpretation of data and the development of hypothesis, is a major component of this course. Elective course recommended for students preparing for the AP Exam.
	AHC INTRO TO ATHLETIC TRAINING (11-12) *g-College Prep Elective	AHC CE hands-on course where students learn the anatomy and physiology of the human body through sports. This course is designed for future coaches, trainers, health and physical educators; to aid in the evaluation and care of athletic injuries. PR
	AP ENVIRONMENTAL SCIENCE (11-12) *d-Meets UC Lab Req.	Learn to appreciate the earth's environment. Examine natural and man-made environmental problems and consider alternatives for resolving or preventing them. Issues will be studied from scientific, sociological, and political perspectives.
	PHYSICS (11-12) *g-College Prep Elective	Highly recommended for students planning to attend a 4-year college or university and required for students planning to major in science, and engineering. Topics include: motion, forces, energy, electricity and magnetism, optics and heat.
	MEDICAL SCIENCE/HEALTH CAREERS (11-12) *g-College Prep Elective	Medical terminology, first aid/CPR, basic health care skills, anatomy and physiology, health care organizations and professions. Participation in job shadowing during spring semester at local hospital. 2 period class (Seniors have priority).
	MEDICAL ASSISTING (11-12) *g-College Prep Elective	Learn skills of medical assisting, infection control, patient examination, EKGs/vital signs, and medical terminology. Clinical internships may be available to eligible students. 2 period class (Seniors have priority).
	PHYSIOLOGY/ANATOMY (11/12) *d-Meets UC Lab Req.	A study of the development and structure of the human body, and the interactions of human cells, tissues, organs and organ systems. Sample topics include the nervous system, cardiovascular system, digestive system, reproductive system. PR
	SPORTS MEDICINE/KINESIOLOGY (11-12) *d-Meets UC Lab Req.	Instruction in kinesiology, biomechanics, anatomy, physiology, healing processes, CPR/First Aid/AED training, injury evaluation, personal training, physical therapy & fitness.
	FORENSIC SCIENCE 1 (11-12) *g-College Prep Elective	Provides a bridge between science and the criminal justice system. Covers scientific theories of forensic science, lab techniques, and identifying trace physical evidence, including DNA.

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SCIENCE Continued	FORENSIC SCIENCE 2 (12) *d- Meets UC Lab Req.	This class applies laboratory sciences used in the criminal justice system. Students will do forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and law/courtroom procedures from the perspective of the forensic scientist. PR
OTHER	MEDIA, MARKETING AND PUBLICATIONS 1 (9-12) *g- College Prep Elective	Students will understand a foundational, comprehensive approach to news writing for the web, broadcast, photo journalism basics, social media news production, digital citizenship, ethics and media law. Student work will be published in the Panther Tales and Panther Tales Annual.
	MEDIA, MARKETING AND PUBLICATIONS 2 (10-12) *g- College Prep Elective	This course builds on skills learned in CTE Digital Media, Marketing and Publications 1.

Mark Richardson CTE Ag Center (Double Period Classes)

CTE Ag Center Pathways	Course Name	Description
AGRICULTURE FARM	<ul style="list-style-type: none"> • INTERMEDIATE AGRICULTURAL FARM • ADVANCED AGRICULTURAL FARM 	Modeled after AHC AG 190 and prepares students for transition to AHC or Cal Poly to participate in their farm programs. Our goal is to have this AHC Concurrent in 2023-2024. This course provides an opportunity to examine and improve the Mark Richardson CTECAF on-campus Student Farm. Students will gain the ability to design and implement basic farming techniques that can be used on either a small or a medium-size farm during Fall-Winter and then Spring-Summer crop seasons. Students will develop fundamental management, business, cultivation, and harvesting techniques throughout this course. At the end of the course, students can apply the necessary skills learned to start their own small-scale farm or apply them in the local agriculture industry. Produce safety will also be addressed. Outdoor labor is required.
CULINARY AT CTE	<ul style="list-style-type: none"> • INTRO TO THE HOSPITALITY INDUSTRY • SANITATION, SAFETY, & EQUIPMENT • PRINCIPLES OF FOODS 1 	Prepare students for further study in Culinary at AHC or a university. Students apply culinary techniques, and nutritional science principles to the production of quality food. Entry-level positions may include food preparation, line cook, and food and beverage service positions.
CYBER SECURITY	<ul style="list-style-type: none"> • NETWORKING ESSENTIALS 1 • NETWORKING ESSENTIALS 2 	Designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing, cabling, CompTIA Network+, and network standards; the theory behind the various kinds of network architectures and data transmission methods, and the use of decision-making and problem-solving techniques in applying science, mathematics, and communication concepts to solve networking problems. Instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment. Emphasis will be placed on the Cisco System Certification.
DIESEL	<ul style="list-style-type: none"> • AUTOMOTIVE FUNDAMENTAL • AUTOMOTIVE ELECTICITY 	Prepares students for a variety of entry-level positions involving medium/heavy duty diesel repair. These positions may include work on over the road trucks, tractors, construction equipment, and more generally in the diesel sales, repair, and support industry. Learned skills include the ability to diagnose and repair diesel engines. Local partners include Quinn CAT, John Deere and Santa Maria Truck Center (Freightliner/Mercedes).
METAL DESIGN & FABRICATION	<ul style="list-style-type: none"> • SURVEY OF MACHINING AND MANUFACTURING • SOLID WORKS1 • MASTER CAM 	Prepares students for variety of entry-level positions in a manufacturing environment. Positions may include manual machine operator, computer numerical control (CNC) operator, computer aided drafting and manufacturing (CAD/CAM) designer, manufacturing generalist or programmer. Learned skills may include the ability to operate conventional and computer numerical controlled (CNC) machinery, program CNC machinery, operate various CAD/CAM systems and interpret blueprints, material handling and quality control.
RESIDENTIAL COMMERCIAL CONSTRUCTION	<ul style="list-style-type: none"> • INTERMEDIATE RESIDENTIAL & COMMERCIAL CONSTRUCTION • ADVANCED RESIDENTIAL & COMMERCIAL CONSTRUCTION 	Prepares students for employment within the construction field with knowledge of general practices within the construction industry, such as residential and commercial building. Entry-level employment and/or placement into a trade union in the specialized trades (e.g. electrician, carpenter, plumbing etc.). Learned skills may include framing, electrical, plumbing, weatherization, blueprint reading, drywall, tile setting, roofing and more.