

ELECTIVES

West Career & Tech 2026-2027



ADVANCED COMPUTER SCIENCE I

This course will introduce students to the essential concepts of computer science and show how computing and technology can influence the world. This course focuses on using technology and programming to solve computational problems and find creative solutions that reduce bias and equity deficits. Topics include classic algorithmic design, control structures, decomposition, modularity, abstraction, hardware and software, data analysis, developing programs, and troubleshooting. *This is a 2-year commitment with student required to take Advanced Computer Science II.

AP BUSINESS WITH PERSONAL FINANCE

This one-year high school business and personal finance course aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump\$tart Coalition for Personal Financial Literacy.



AP COMPUTER SCIENCE PRINCIPLES

This one-year college-level course is an introductory computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. *Student is required to take AP Exam.



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AP CYBERSECURITY

This one year high school course that offers a broad introduction to the field and aligns closely with a college-level, introductory cybersecurity course. Students learn about common threats and vulnerabilities and how they combine to create risk. Students study how individuals and organizations manage risk and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, societies, and governments.

AP HUMAN GEOGRAPHY

This one-year course is designed for the college-bound student. This course provides students with an understanding of the systematic study of patterns and processes that have shaped, and continue to shape, human understanding, use, and alteration of the Earth's surface. This course will focus on the methods and tools geographers use in their science to employ spatial concepts and landscape analysis within a geographical, historical, political, economic, and cultural context. *Student is required to take AP Exam.



ART I

This one-year foundation course is designed to provide a basic understanding of the elements and principles of art as emphasized through the production of art, the study of art history, aesthetics, and art criticism.

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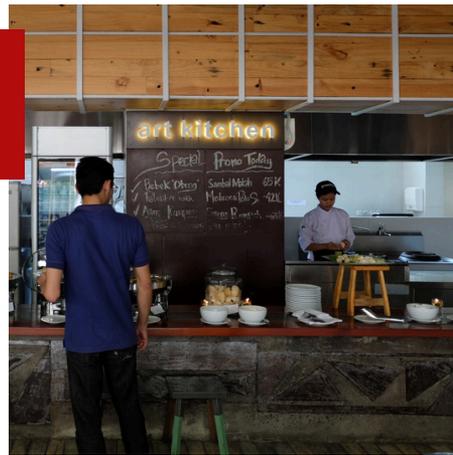


BEGINNING PHOTOGRAPHY

This one-year course is designed to introduce students to the fundamentals of commercial photography in relation to seeing photographically, operating cameras, use of light, image capture, and processing digital images. Students will also learn the history of photography, legal and ethical issues related to the industry.

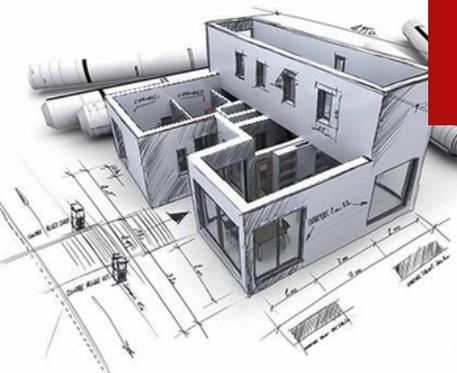
CAFETERIA WORKER

This course prepares students to perform food preparation, food service, and customer service tasks in compliance with Southern Nevada Health District (SNHD) regulations. Students will also complete post-service responsibilities and develop essential workplace skills, including teamwork, professionalism, and adherence to industry standards and expectations. Students must complete an application and earn \$12 hourly pay.



DESIGN DRAFTING I

This course introduces the student to the fundamentals of sketching and computer-aided drafting and design (CADD). This course provides students with the knowledge and practice in sketching techniques, and CADD required to produce and analyze multi-view drawings, pictorial drawings, and dimensioning. Various career opportunities and areas for postsecondary study will be explored. *This is a 2-year commitment with student required to take Design Drafting II.



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DRAWING I

This one-year course provides students with a strong foundation for drawing through the study of basic techniques and the use of a variety of media and subject matter. Students participate in exercises in art appreciation and critique to learn to personally consider and judge art. Problem solving, creativity, and originality are cultivated through planning, art making, and reflection.

FILM STUDIES

In this one-year course, students study the development of the American film as an art form and a social phenomenon. The course surveys century genres, eras, trends, directors, studios and moguls. Students will focus on the techniques of acting as they apply to the electronic and film media. Class work will focus on class discussion and criticism of various films.



GRAPHIC DESIGN I

This course is designed to introduce students to the fundamental skills and knowledge needed to create graphic works using industry-standard hardware and software for a variety of purposes and outputs. Areas of study include the understanding of the industry history, terminology, color, design principles, typography, and ethical and legal issues related to graphic designs. Emphasis is placed on layout design and the creation and manipulation of graphics. *This is a 2-year commitment with student required to take Graphic Design II.

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IMAGINATIVE WRITING

This one-year course develops and improves both formal and informal writing skills with emphasis placed upon self-expression, creativity, and clear communication.

JOURNALISM FOUNDATIONS

This one-year course is designed for the study and practice of the basic elements of journalism with major emphasis in the gathering, writing, layout, and dissemination of news through mass media. Students may be required to participate in the production of a newspaper.



MULTIMEDIA COMMUNICATIONS

This course introduces students to various media technologies used in business for digital communications. Areas of study will include website development, user interface, video, photo, written content, social media marketing, and front-end design. Practices incorporate an appreciation of alternative and culturally diverse perspectives essential in business communication. *This is a 2-year commitment with student required to take Multimedia Communications II.

ORCHESTRA COURSES

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BEGINNING

STRINGS ONLY, NO ASSESSMENT REQUIRED

This one-year course is designed for students with no prior experience playing a bowed string instrument. The curriculum introduces fundamental techniques, including posture, bowing, tone production, rhythm, and basic music reading. Students will learn about the role of string music in their cultural and musical heritage while building foundational skills necessary for individual and group performance. Emphasis is placed on consistent practice, developing proper technique, and cultivating an appreciation for ensemble playing.



INTERMEDIATE

STRINGS ONLY, PLACEMENT ASSESSMENT REQUIRED

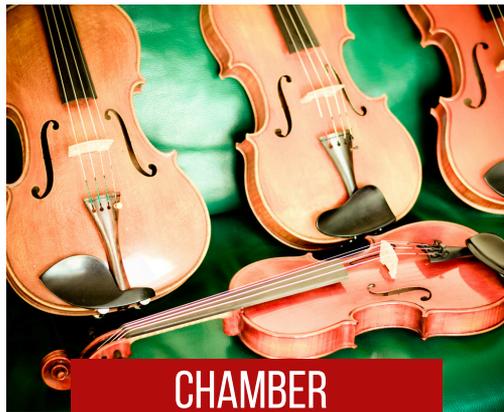
This one-year course is designed for bowed string students who have advanced skills beyond Middle School Chamber Orchestra or Beginning Orchestra. The curriculum focuses on developing the skills necessary for independent musicianship and includes an exploration of string literature from 1600 to the present. Students will refine techniques such as third position and higher, double-stopping, vibrato, and harmonics while enhancing articulation, dynamics, rhythm, and tone production. Students will engage with repertoire at Grade 2 difficulty and higher, with private instruction strongly recommended to support their growth.



ADVANCED

PHILHARMONIC, PLACEMENT ASSESSMENT REQUIRED

This one-year course is designed for students of string, wind, brass, and percussion instruments. Students will explore the rich heritage of orchestral music, studying its evolution in style and genres, articulation, dynamics, rhythm, and tone production throughout history. Students will participate in a variety of performance opportunities to refine their skills and gain ensemble experience. A basic understanding of music theory is also expected. Pianists with advanced proficiency and strong sight-reading skills, as well as guitar players with exceptional sight-reading ability, may audition for this ensemble.



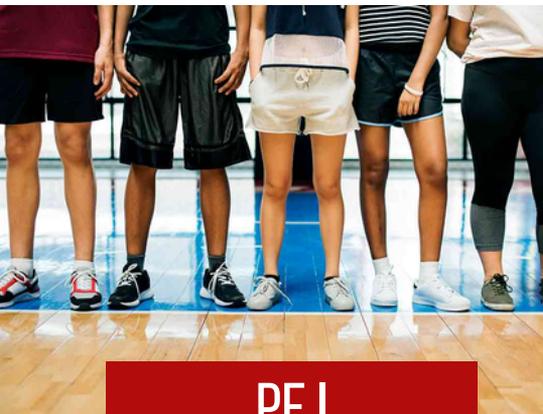
CHAMBER

STRINGS ONLY, PLACEMENT ASSESSMENT REQUIRED

This one-year course is the highest-level ensemble offered for advanced bowed string students. The ensemble focuses on performing highly stylized chamber orchestra repertoire, including works of significant technical and musical complexity. Students are expected to demonstrate an exceptionally high level of proficiency on their instruments, including mastery of advanced techniques such as shifting to higher positions, double stops, harmonics, and interpreting complex rhythms. A basic understanding of music theory is also required. The repertoire typically includes music at Grade 4, 5, and higher levels of difficulty.

P.E. COURSES

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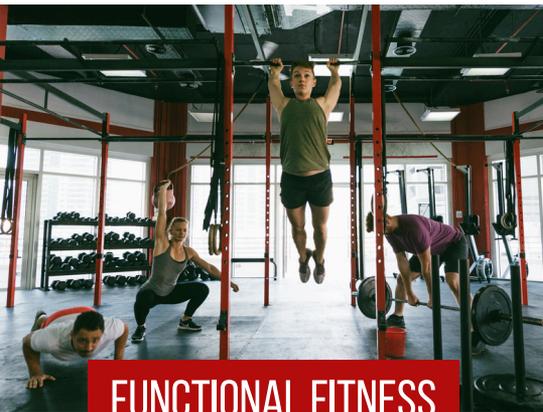
PE I

This one-year course provides students the opportunity to develop a health and skill-enhancing level of physical fitness. Students engage in movement and fitness activities at moderate to vigorous levels for a minimum of 50% of the instructional time. Through participation in physical activities, students execute motor skills, movement patterns, and safety within the course. Health and skill-enhancing fitness concepts are explored through personal goal setting and self-evaluation.



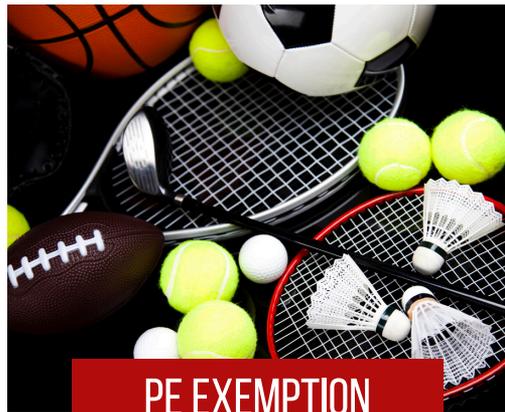
PERSONAL FITNESS & WELLNESS I

This one-year course is designed to promote a positive approach toward personal health. Students are provided with experiences in health- and skill-related fitness that develop decision-making skills, positive self-esteem, and personal regard. This course develops knowledge pertaining to the principles of wellness, components of physical fitness, proper nutrition, personal decision-making skills, and career opportunities.



FUNCTIONAL FITNESS

This one-year course provides students the opportunity to participate in CrossFit that focuses on introducing and developing skills in weightlifting, gymnastics and monostructural activities such as running, rowing, biking, jump roping, etc. to develop a health-enhancing level of physical fitness. Students can expect to build strength, aerobic capacity, and competency in bodyweight movements. Workouts are scaled or modified as needed to accommodate each student at their individual level of fitness or athletic ability.



PE EXEMPTION

Select only if planning to play a sport, ROTC, or marching band at zoned school, or participate in a competitive club sport/activity. Refer to list in the Google form.

Email the WCTA Magnet Counselor for more details.

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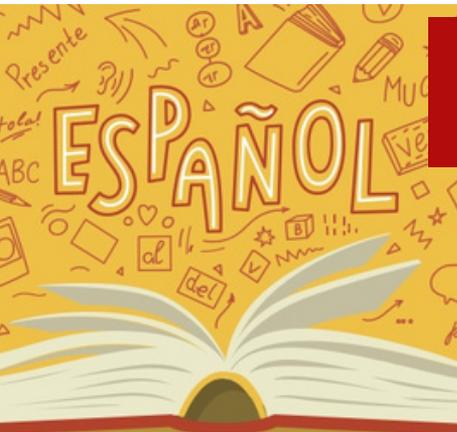


PROJECT BASED LEARNING GREENHOUSE

This one-year course provides students a technical understanding and working knowledge of the greenhouse industry. Topics include safety, plant physiology, growing media, plant nutrition, propagation, growing greenhouse crops and greenhouse business concepts. Students will gain knowledge and skills related to the care and management of gardens and greenhouses.

PUBLICATIONS I YEARBOOK

This one-year course is designed for the study and practice of the foundational elements of publications with major emphasis in information gathering, writing, layout design, and photography. Students participate in the production of the school yearbook.



SPANISH

Spanish I
Spanish II Honors
Spanish III Honors

Contact the WCTA Magnet Counselor for Credit By Exam option and the opportunity to enroll in a higher level course.

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STEM ROBOTICS I

This one-year course allows students take on the roles of mechanical engineers, computer scientists and electrical engineers. Students research dynamics, kinematics and sensors. Subjects such as motion planning and obstacle avoidance, velocity and acceleration, serial chain mechanisms, pneumatic actuators, and drive circuits are covered. Students put knowledge into practice through lab settings where robots are created with teams.

TEACHING & TRAINING I

This course provides students with an introduction to the principles of education. This course addresses teaching and learning. Study includes planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching. Students will research the requirements of education and training careers and begin to develop a career portfolio. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society.



VIDEO PRODUCTION I

This course is designed to introduce students to the basic elements and skills needed to produce a video. Operating video cameras, script writing, editing equipment, microphones, and the process of on-air program production are emphasized. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism. *This is a 2-year commitment with student required to take Video Production II.

