



West Career and Technical Academy

wctawranglers.com

11945 W. Charleston Blvd., Las Vegas, NV 89135 Telephone: (702) 799-4340 Fax: (702) 799-4355

Administration

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Assistant Principal - Devyn Horst
Assistant Principal - Nikita Jones

Counselors

Lisa Lanza
Benjamin Martin
Stephen McKinney
Todd Steffenhagen
Sharon Voo

Profile 2024-2025 CEEB Code: 290244

OUR MISSION

The Mission of West Career and Technical Academy is to inspire students to compete successfully in the 21st century by providing a college preparatory education that utilizes project-based learning, real-world applications, and innovative technology in a positive, collaborative culture.

SCHOOL AND COMMUNITY

West Career and Technical Academy (WCTA) is a suburban public magnet school that offers nine distinct areas of study in the Clark County School District. Current enrollment is approximately 1500 students in grades nine through twelve. Each program area follows a unique four-year sequence of courses. Rigorous coursework, project-based learning, job shadowing, and internships give students first-hand experience in their selected program areas and prepares them for their transition to postsecondary institutions. The student body represents culturally and economically diverse backgrounds. The school opened in 2010, and the first official graduating class matriculated in 2012-13.

West Career and Technical Academy was named a National Blue Ribbon School in 2020. WCTA continues to be ranked in the top 5% as one of America's top schools in US News & World Report and Newsweek's. WCTA is a certified Google Apps for Education high school, and is setting the standard for real world, project-based, high-tech learning. The school has received a Five Star designation every year since the implementation of the star rating, according to the Nevada School Performance Framework. WCTA is nationally recognized by Magnet Schools of America as a Magnet School of Excellence and Gold Council of Excellence recipient. In 2024, WCTA was designated a Governor's Stem model School.. WCTA also received the Silver Star and national Chapter of Excellence for Student Council, Spanish Honor Society Chapter of the Year, many Scholastic Art and Writing awards and the Platinum status for College Board's Advanced Placement program. The 2024 graduation rate of 99% included 76% AP test scores of three or higher out of a total of 1827 AP exams taken.

CLASS OF 2024 HIGHLIGHTS

West Career and Technical Academy had 83% of our 2024 graduating class attending four year postsecondary institutions. Collectively our class of 2024 earned over \$15.5 million dollars in scholarship money. WCTA graduates have been accepted to out-of-state universities including Texas A & M, Southern Methodist University, Cornell University, Georgetown University, Penn State, Vanderbilt University, Rice University, Purdue University, George Washington University, Duke University, Fordham University, Boston University, UC San Diego, BYU, Virginia Polytechnic Institute University, Rensselaer Polytechnic Institute, Columbia University, Pepperdine University, and the US Air Force Academy.

GRADUATION REQUIREMENTS

Graduation with a standard diploma requires 23 credits. 14 of these credits are required in the following areas: 4 credits of English, 3 credits of math, 2 credits of science, 1 credit of U.S. history, ½ credit of American Government, ½ credit of Economics and Financial Literacy, 2 credits of physical education, ½ credit of health, and ½ credit of use of computers. 1 credit is taken within arts, humanities and CTE electives, 6 credits are taken in accordance with student interest in elective areas, and 2 credits are flex credits. Flex credits are defined as second or third year Career and Technical Education courses in one program of study, a fourth year in math, a third year of science or a third year of social studies. Elective courses are often academic subjects over and above the required course work. Additionally, students must take the ACT plus writing. Honors courses are identified with H (Honors), AP (Advanced Placement), and Dual Enrollment (Dual Enrollment) following the course title on student transcripts.



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WEIGHTED GPA

Students at West Career and Technical Academy receive added weight for Honors, AP, and Dual Enrollment classes. AP and Dual Enrollment courses will add weighted GPA (w/ Bonus Points) of .05 points and honors level courses will add a Weighted GPA (w/ Bonus Points) of .025 points. West Career and Technical Academy uses a traditional grade point average distribution A=4.0, B=3.0, C=2.0, D=1.0

ADVANCED DIPLOMA

A student may earn an Advanced Diploma by completing 1 additional credit in math, 1 additional credit in science, and 1 additional credit in World History/Geography/Humanities. The Advanced Diploma requires a total of 24 credits and a minimum 3.25 Cumulative GPA (Unweighted) as noted on the transcript.

COLLEGE AND CAREER READY DIPLOMA

A student may also earn a College and Career Ready Diploma. The goal is to ensure that CCSD graduates are either ready for college and/or a career. To earn this diploma students are required to complete twenty-four (24) units (credits) of approved course work, including:

1. Eighteen (18) units in the required areas of study,
2. Six (6) units of elective credit in approved coursework,
3. 3.25 GPA or higher (unweighted or weighted)
4. Proficiency in two languages, or two (2) units in AP courses, IB courses, Dual Credit courses, CTE courses, Work Based Learning courses, or a world language course, and
5. One or both of the following endorsements:
 - a. **College-Ready** endorsement for students that successfully complete a college readiness assessment, and receive not less than remedial scores for initial (non-remedial) placement into college-level English and mathematics courses
 - b. **Career-Ready** endorsement for students that successfully complete the ACT National Career Readiness Certificate (NCRC) - level Silver or above, or successfully complete the ASVAB - score 50 or above, or obtain a Career and Technical Education Skills Attainment

ADVANCED PLACEMENT, DUAL ENROLLMENT AND HONORS COURSES

West Career and Technical Academy follows all of the College Board's guidelines for Advanced Placement courses and exam administration.

AP English Language	AP Statistics	AP Physics II	AP Seminar	AP Spanish Lit. & Culture
AP English Literature	AP Biology	AP African Am. Studies	AP US Gov/Pol & NV Econ.	AP Computer Sci. A
AP Calculus AB	AP Chemistry	AP Human Geography	AP US History	AP Computer Sci. Prin.
AP Calculus BC	AP Enviro. Sci.	AP Psychology	AP World History: Modern	AP Studio Art: 2D
AP PreCalculus	AP Physics I	AP Research	AP Spanish Lang. & Culture	

Dual Enrollment English 101/102

Dual Enrollment US History 101/102

Dual Enrollment Math 96/126

English 9 H	Chemistry H	US Gov. H	Nursing Assist. H
English 10 H	Geoscience H	US History H	Cybersecurity III H
English 11 H	Physics H	US World History H	PLTW Civil Engineering H
Algebra II H	Prin. of Anat. & Phys. H	Spanish II H	
Geometry H	Prin. of Genetics H	Spanish III H	
Biology H	Econ. & Financial Lit. H	Animation III H	



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SPECIAL PROGRAMS:

Biomedical Science: The Biomedical Program provides students with the knowledge and skills in inquiry science, disease exploration, human body systems, and biomedical engineering. Areas of study include infectious and genetic diseases, molecular biology, oncology, metabolism, homeostasis, and exercise physiology.

Biotechnology Program: The Biotechnology Program introduces students to the “smaller aspects of biology.” Areas of exploration include applied biomedical engineering, molecular biology, pathogen defense, infectious diseases, genetic diseases and preventing, detecting, and treating cancer. Topics of investigation will include biomedical problems, community health, and the roles and responsibilities of various biomedical professions. Students will gain an understanding of the role of genes, chromosomes, and inheritance, the principles of histology, and DNA biotechnology. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Business Management: The Business Management program provides students with the overall principles of business management. Areas of study include economics, budgeting, human resource management, operations, strategic management and financial-based decision making.

Cybersecurity Program: The Cybersecurity Program provides students with knowledge and skills in computer maintenance and repair, the cybersecurity life cycle, incident handling and networking. Successful students will be prepared to take certification exams for CompTIA's A+ and Networking +, the gateway certifications for careers in IT and Cybersecurity.

Digital Art and Design: The Digital Art and Design Program provides students with an introduction to the principles of creating graphic works. Areas of study include elements and principles of design, production aspects, legal and ethical issues, and portfolio development. techniques, and studio and engineering procedures.

Engineering: The Engineering Program provides students the opportunity to learn various aspects of architecture and civil engineering. Areas of study include safety, construction documentation, the engineering design process, impacts of engineering on society, material properties, energy principles. Students will explore robotic systems in automation, determine components in robotic systems, and construct a robotic system for automation.

Environmental Management: The Environmental Management program provides agriculture students with the information and skills necessary for success in environmental management. Areas of study include ecology, environmental quality, sustainable use, GIS and GPS, energy, hydrology and hydrogeology, law and public policy, environmental site analysis, careers, and leadership development.

Nursing: The Nursing Assistant Program provides students with the knowledge and skills required for entry into the healthcare field. Students completing the didactic and clinical practicum are eligible for the Nevada State of Nursing Certifying exam as a Nursing Assistant.

Sports Medicine: The Sports Medicine Program provides students with an introduction to sports medicine techniques and processes. The program provides the primary skills and knowledge in athletic training, and sports medicine related fields. The areas of study include physical fitness, human anatomy and physiology, injury evaluation and prevention, and rehabilitation. WCTA Sports Medicine also partners with the National Academy of Sports Medicine (NASM). Sports Medicine Seniors are enrolled in the NASM Certified Personal Training curriculum and upon graduation they qualify to take the NASM-CPT exam.

STUDENT-LED ORGANIZATIONS AND CLUBS

During the 2023-24 school year, West Career and Technical Academy had 31 curriculum related clubs including Distributive Education Clubs of America (DECA), Future Business Leaders of America (FBLA), Future Farmers of America (FFA), Health Occupations Students of America (HOSA), SkillsUSA, National Honor Society, Student Council, Mock Trial, Cyber Patriot, We the People, and Science Olympiad. Participants in organizations and clubs have distinguished themselves with numerous awards through national competitions.