

2022-2023

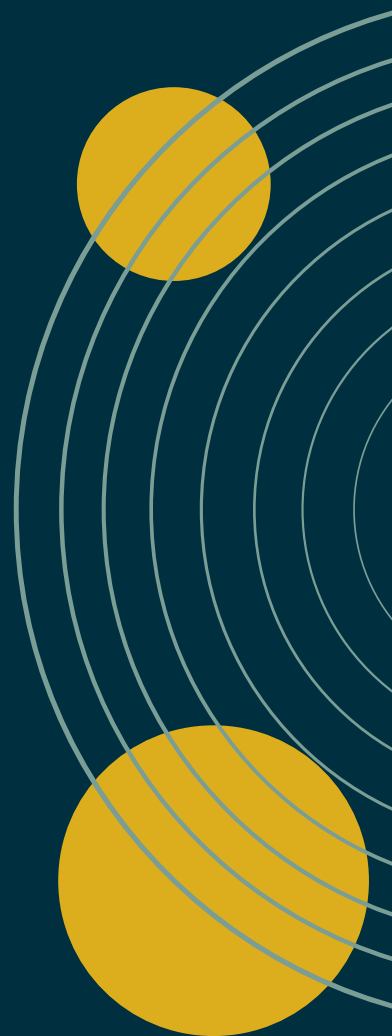
CAREER TECHNICAL EDUCATION HANDBOOK



Corona-Norco Unified School District
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TABLE OF CONTENTS

1	Message from CTE Director
2	Explore the Possibilities
3	California Industry Sectors
4	Agriculture and Natural Resources
5	Arts, Media, and Entertainment
6	Building Trades and Construction
7	Business and Finance
8	Engineering and Architecture
9	Health Science and Medical Technology
10	Hospitality and Tourism
11	Information and Communication Technology
13	Marketing, Sales, and Service
14	Manufacturing and Product Development
16	Public Services
17	Transportation and Aviation
18	Opportunities to Earn College Credit
19	Articulated College Courses
20	Industry Certification Opportunities
21	CTE Advisory Committee
22	CTE Business Partnerships
23	CTE Leadership Academy
24	Learn more about CTE
25	Resources



A MESSAGE FROM DR. BOSTER, CTE DIRECTOR



Dr. Gina Boster
CTE Director

Career Technical Education programs offered at the Corona-Norco Unified School District have greatly expanded throughout the years. We are proud to provide students with unique learning experiences which align with our Local Control Accountability Plan (LCAP). CTE programs are offered as early as 7th grade. At CNUSD, students have the opportunity to find their passion and potentially earn an industry certification before graduating high school. Our educators and staff are committed to preparing our scholars for a bright future ahead. As you flip through this handbook, my hope is you will learn about the various educational options available here at CNUSD. I look forward to seeing your child enrolled in one of our pathways soon.

CAREER TECHNICAL EDUCATION TEAM



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CTE Coordinator



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EXPLORE THE POSSIBILITIES

Career Technical Education (CTE) programs offered at the Corona-Norco Unified School District are unparalleled. As you flip through these pages, you will find 21st century industry standard pathways that provide students with a promising future in various fields. Our CTE program, which is aligned to our District's Local Control Accountability Plan (LCAP), has been developed with the help of our community and industry experts.

Throughout the years, CNUSD has expanded CTE and STEM programs. CNUSD is proud to offer pathways in 12 of the 15 California industry sectors providing students a unique hands-on experience. Our teachers and administrators are committed to providing quality and rigorous educational opportunities which will prepare our students for the future, today.

What is CTE?

Career Technical Education provides students with the academic and technical skills, knowledge, and training necessary to succeed in future careers and to become lifelong learners. In total, about 12.5 million high school and college students are enrolled in CTE across the nation. CTE prepares these learners for the world of work by introducing them to workplace competencies, and makes academic content accessible to students by providing it in a hands-on context (source: www.careertech.org/cte).

What is STEM?

STEM is a curriculum based on the idea of educating students in four specific disciplines including Science, Technology, Engineering, and Mathematics in an interdisciplinary and applied approach. Rather than teach the four disciplines as separate and discrete subjects, STEM integrates them into a cohesive learning paradigm based on the real-world (source: www.livescience.com).



California Industry Sectors

Please visit our website at www.cnusd.k12.ca.us/cte to learn which pathways are offered at your school site.



Agriculture and Natural Resources: Agricultural education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber, and natural resources systems.



Arts, Media, and Entertainment: The Arts, Media, and Entertainment sector helps prepare students for a career in production and managerial arts.



Building Trades and Construction: The Building Trades & Construction sector provides students with hands-on woodworking and construction experiences to build the skills needed to thrive in the field.



Business and Finance: Students learn entrepreneurship, finance, and business management skills to prepare them for their future career.



Engineering and Architecture: The Engineering and Architecture industry sector is ideal for students who have a strong understanding of mathematics and a creative drive to design new ideas.



Health Science and Medical Technology: Students participate in hands-on activities preparing them for a career in the health field.



Hospitality and Tourism: This sector integrates various facets of the hospitality industry, such as, lodging, travel and tourism, event planning, theme parks, attractions, exhibitions, and recreation.



Information & Communication Technology: Information technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration.



Marketing, Sales, and Service: This sector provides an opportunity to learn the techniques of transferring products or services to consumers.



Manufacturing & Product Development: Product development involves the creation of an idea and the subsequent design and process that results in a product.



Public Service: This sector provides a foundation for students interested in being involved in their community and serving the public's interest.



Transportation & Aviation: Students gain hands-on experience in learning how to repair vehicles, perform oil changes, learn how to fly an airplane, and more.



Create a sustainable world.

Do you enjoy gardening or creating floral arrangements? Are you interested in learning about food, fiber, wood products, and natural resources? Agricultural education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber, and natural resources systems. Through agricultural education, students are provided opportunities for leadership development, personal growth, and career success.

Students can enroll in the following pathways:

Agricultural Mechanics

The Agricultural Mechanics pathway prepares students for careers related to the construction, operations, and maintenance of equipment used by the agriculture industry. Topics include basic agricultural mechanic skills and safety, woodworking, electrical systems, plumbing, cold metal work, concrete, welding technology, metal fabrication, small engines, agriculture power and technology, and agriculture construction.

Agriscience

The Agriscience pathway helps students acquire a broad understanding of a variety of agricultural areas, develop an awareness of the many career opportunities in agriculture, participate in occupationally relevant experiences, and work cooperatively with a group to develop and expand leadership abilities. Students study California agriculture, agricultural business, agricultural technologies, natural resources, and animal, plant, and soil sciences.

Ornamental Horticulture

The Ornamental Horticulture pathway prepares students for careers in nursery, landscaping, and floral industries. Topics include plant identification, plant physiology, soil science, plant reproduction, nursery production, and floriculture, as well as landscaping design, installation, and maintenance.

Agriculture occupations include...

- Water Resource Specialist - \$66 per hour*
- Agricultural Sciences Post-Secondary Teachers - \$95,910 median wage*
- Agricultural Managers - \$35 per hour*
- Soil and Plant Scientists - \$32 per hour*
- Agricultural Inspectors - \$22 per hour*
- Farm Equipment Mechanics and Service Technicians - \$23 per hour*
- Forest and Conservation Technicians - \$19 per hour*

Fun Fact:

- Agriculture is a significant sector in California's economy, producing nearly \$50 billion in revenue in 2018. There are more than 400 commodity crops grown across California, including a significant portion of all fruits and nuts for the United States.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.





Let your creativity take over.

Are you passionate about photography? Are you interested in the behind-the-scenes of video production? The Arts, Media, and Entertainment sector helps prepare you for a career in production and managerial arts. This industry sector careers include actors, writers, and developers from graphic designers to multi-tasking managers.

Students can enroll in the following pathway:

Production and Managerial Arts

The Production and Managerial Arts pathway provides students with the learning opportunities in media production, communication, and dissemination techniques and methods. This includes alternative ways to inform and entertain via written, oral, and visual media.

Arts, Media, and Entertainment occupations include...

- Interpreters and Translators - \$24 per hour*
- Web Developers - \$37 per hour*
- Film and Video Editors - \$30 per hour*
- Audio and Video Equipment Technicians - \$23 per hour*
- Post-Secondary Art, Drama, and Music Teachers - \$78,000 annually**
- Technical Writers - \$37 per hour*
- Sound Engineering Technicians - \$29 per hour*
- Multimedia Artists and Animators - \$38 per hour*
- Music Composers and Arrangers - \$24 per hour*
- Fine Artists, including Painters, Sculptors, and Illustrators - \$29 per hour*

Fun Facts:

- United States media and entertainment employs 1.6 million individuals.
- There were 75,240 openings in Arts, Media, and Entertainment. The average wage in this sector was \$86,630.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.



Building Trades and Construction



Construct the future.

Is building a piece of furniture something you'd like to do? Do you enjoy hands-on projects? The Building Trades and Construction sector provides students with hands-on woodworking and construction experiences to build the skills needed to thrive in the field.

Students can enroll in the following pathways:

Cabinetry, Millwork, & Woodworking

The Cabinetry, Millwork, and Woodworking pathway provides learning opportunities for students interested in preparing for careers in cabinet construction, millwork, finish carpentry, and furniture making for both production and custom products.

Mechanical Systems Installation and Repair

The Mechanical Systems Installation and Repair pathway provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-conditioning (HVAC) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and EPA certification.

Building Trades and Construction occupations include...

- Heating, Air Conditioning, and Refrigeration Mechanics and Installers: \$23-\$35 per hour*
- Construction Managers - \$47 per hour*
- Electrical Engineers - \$48 per hour*
- Solar Energy Installation Managers - \$36 per hour*
- Construction and Building Inspectors - \$30 per hour*
- Electricians - \$29 per hour*
- Structural Iron and Steel Workers - \$28 per hour*
- Plumbers - \$30 per hour*
- Reinforcing Iron and Rebar Workers - \$23 per hour*
- Brickmasons and Blockmasons - \$28 per hour*
- Oil and Gas Derrick Operators - \$22 per hour*

Fun Facts:

- Skilled craft professionals continue to earn top dollar, with salaries starting above the national median wage.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.

Residential and Commercial Construction

The Residential and Commercial Construction pathway provides learning opportunities for students interested in construction and building design, performance, and sustainability. The standards focus on the manner in which residential and commercial structures are designed and built.





Run a successful company.

Is math one of your favorite subjects? Can you envision yourself as an entrepreneur? The Business and Finance sector might be a great fit for you. Students learn entrepreneurship, finance, and business management skills to prepare them for their future career.

Students can enroll in the following pathways:

Financial Services

The Financial Services pathway is an essential aspect of every business institution and organization. Students in this pathway investigate the field of financial management including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students formulate and interpret financial information for use in financial management decision making, such as compliance and risk management. This pathway may include programs of study for accounting, banking, securities and investments, and other financial specializations.

Business and Finance occupations include...

- Branch or Department Financial Managers - \$63 per hour*
- Compensation and Benefits Managers - \$61 per hour*
- Personal Financial Advisors - \$45 per hour*
- Purchasing Managers - \$61 per hour*
- Administrative Services Managers - \$48 per hour*
- Financial Analysts - \$44 per hour*
- Post-Secondary Business Teachers - \$94,360 annually**

Fun Fact:

- Higher-skill occupations include Accountants and Auditors.

Business Management

In the Business Management pathway, students learn entrepreneurship and business fundamentals, goal-setting, resource allocation, organizational structure and management techniques, economics, financial data, risk management, information technology, and supply chain management.



*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.



Creativity meets technology.

The Engineering and Architecture industry sector is ideal for students who have a strong understanding of mathematics and a creative drive to design new ideas. Attributes for success in this sector include strong problem solving and analytical skills.

Students can enroll in the following pathways:

Architectural Design

The Architectural Design pathway provides learning opportunities for students interested in preparing for careers in areas such as architecture, industrial design, and civil engineering.

Engineering Technology

The Engineering Technology pathway provides students with knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, practical application of engineering science and technology.

Engineering and Architecture occupations include...

- Biofuels/Biodiesel Technology and Product Development Managers - \$50 per hour*
- Post-Secondary Engineering Teachers - \$104,940 annually**
- Chemical Engineers - \$51 per hour*
- Product Safety Engineers - \$46 per hour*
- Water/Wastewater Engineers - \$42 per hour*
- Human Factors Engineers and Ergonomists - \$45 per hour*
- Urban and Regional Planners - \$37 per hour*
- Aerospace Engineering and Operations Technicians - \$35 per hour*
- Landscape Architects - \$32 per hour*
- Cartographers and Photogrammetrists - \$33 per hour*

Fun Facts:

- The Science, Technology, Engineering, and Mathematics (STEM) CTE cluster prepares students for careers in engineering and computer science; critical areas for the economic future of our country.
- In 2019, critical workforce occupations accounted for 56% (976,575) of all jobs.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.





Help save lives.

Do you want to save lives? Is working in a medical facility something you're passionate about? The Health Science & Medical Technology sector might be the perfect fit for you. Students participate in hands-on activities preparing them for a career in the health field. This sector requires academic and technical skills, as well as the related knowledge necessary for the field.

Students can enroll in the following pathways:

Patient Care

The Patient Care pathway applies to occupations or functions involved in the prevention, treatment, and management of illness and the preservation of mental and physical well-being through the services offered by the medical and allied health professions.

Biotechnology

The Biotechnology pathway relates to occupations and functions relevant for understanding and solving biomedical problems and creating products to improve the quality of human life.

Health Science and Medical Technology occupations include...

- Occupational Therapy Assistants - \$41 per hour*
- Athletic Trainers - \$48,500 annually**
- Nurse Practitioners - \$58 per hour*
- Physical Therapists - \$46 per hour*
- Anesthesiologist Assistants - \$59 per hour*
- Forensic Science Technicians - \$30 per hour*
- Phlebotomists - \$18 per hour*
- Surgical Assistants - \$23 per hour*
- Physical Therapist Assistants - \$30 per hour*
- Cardiovascular Technologists and Technicians - \$29 per hour*

Fun Facts:

- Health Care occupations are projected to grow 18-percent by 2026, adding more than two-million new jobs.
- Higher-skill occupations include Medical and Health Services Managers.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.





Cook up a career.

The Hospitality, Tourism, and Recreation industry sector encompasses many different yet interrelated careers. If you enjoy working with different people on a day-to-day basis, this could be the career industry for you.

Students can enroll in the following pathway:

Food Service and Hospitality

The Hospitality, Tourism, and Recreation pathway integrates various facets of the hospitality industry, such as, lodging, travel, and tourism, event planning, theme parks, attractions, exhibitions, and recreation. Students engaged in this pathway have broad experiences related to the specific industry segments, including, industry awareness, organizational management, customer service, sales and marketing, facilities and management, lodging, travel destinations, reservations, ticketing, and itineraries.

Hospitality and Tourism occupations include...

- First-Line Supervisors of Housekeeping and Janitorial Workers - \$19 per hour*
- Dietitians and Nutritionists - \$30 per hour*
- Lodging Managers - \$29 per hour*
- Food Service Managers - \$28 per hour*
- Meeting, Convention, and Event Planners - \$25 per hour*
- Chefs and Head Cooks - \$24 per hour*
- Travel Guides - \$15 per hour*
- Tour Guides and Escorts - \$15 per hour*
- Recreation Workers - \$15 per hour*
- Motion Picture Projectionists - \$15 per hour*

Fun Fact:

- Hospitality and Tourism is the fifth largest industry in the country.

*Median hourly earnings.

Data was collected from www.onetonline.org.





Shape the future.

Are you comfortable around computers? Information technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Students can enroll in the following pathways:

Games and Simulation

Students in the Game and Simulation pathway develop a solid foundational understanding of game design, hardware, graphics, and animation. Students gain practical experiences in game/simulation conceptualization, design, storyboarding, development methodologies, essential programming techniques, working with a team, and implementation issues.

Information Support and Services

Students in the Information Support and Services pathway prepare for careers that involve the implementation of computer services and software, support of multimedia products and services, provision of technical assistance, creation of technical documentation, and the administration and management of information and communication systems. Mastery of information and communication technologies is the foundation for all successful business organizations today. Individuals with expertise in information and communication technologies is the foundation for all successful business organizations today. Individuals with expertise in information and communication technologies support and services are in high demand for a variety of positions in business and industry.



Software and System Development

Students in the Software and Systems Development pathway prepare for careers related to computer science that involve the design, development, implementation, maintenance, and management of systems that rely on software programs to satisfy the operational needs of modern business organizations (electronic commerce, medical records management, retail sales and inventory management, digital entertainment, and use of energy).



Information and Communication Technology occupations include...

- Operations Research Analysts - \$40 per hour*
- Mathematicians - \$52 per hour*
- Information Security Analysts - \$50 per hour*
- Computer and Information System Managers - \$77 per hour*
- Software Developers - \$58 per hour*
- Computer User Support Specialists - \$24 per hour*
- Computer and Information Research Scientists - \$63 per hour*
- Post-Secondary Computer Science Teachers - \$77,910 annually**
- Telecommunications Engineering Specialists - \$58 per hour*
- Computer Network Support Specialists - \$30 per hour*

Fun Fact:

- Higher-skill jobs include Computer Systems Analysts and Computer & Information Systems Managers.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.





Thrive as a salesperson.

Do you think you would be good at promoting, describing, or selling the merits of a product or idea? This sector provides an opportunity to learn the techniques of transferring products or services to consumers.

Students can enroll in the following pathway:

Professional Sales

The Professional Sales pathway provides an opportunity for students to develop knowledge and skills in the theory and practice of sales designed to provide a professional foundation to those involved in personal selling careers including the fundamentals of personal selling with an emphasis on customer behavior, persuasive presentation of ideas, products and services, and developing sales goals.

Marketing, Sales, and Service occupations include...

- Marketing Managers - \$65 per hour*
- Sales Managers - \$61 per hour*
- Advertising and Promotions Managers - \$61 per hour*
- Solar Sales Representatives and Assessors - \$46 per hour*
- Real Estate Brokers - \$30 per hour*
- Market Research Analysts and Marketing Specialists - \$31 per hour*
- Real Estate Sales Agents - \$23 per hour*
- Travel Agents - \$21 per hour*
- Parts Salespersons - \$16 per hour*
- Demonstrators and Product Promoters - \$16 per hour*

Fun Fact:

- Market Research Analysts and Marketing Specialists is the fastest growing career in this industry sector.

*Median hourly earnings.

Data was collected from www.onetonline.org.



Manufacturing and Product Development



Bring your creation to life.

Manufacturing is the use of tools and labor to make products to sell. Product development involves the creation of an idea and the subsequent design and process that results in a product.

Students can enroll in the following pathway:

Machining & Forming Technologies

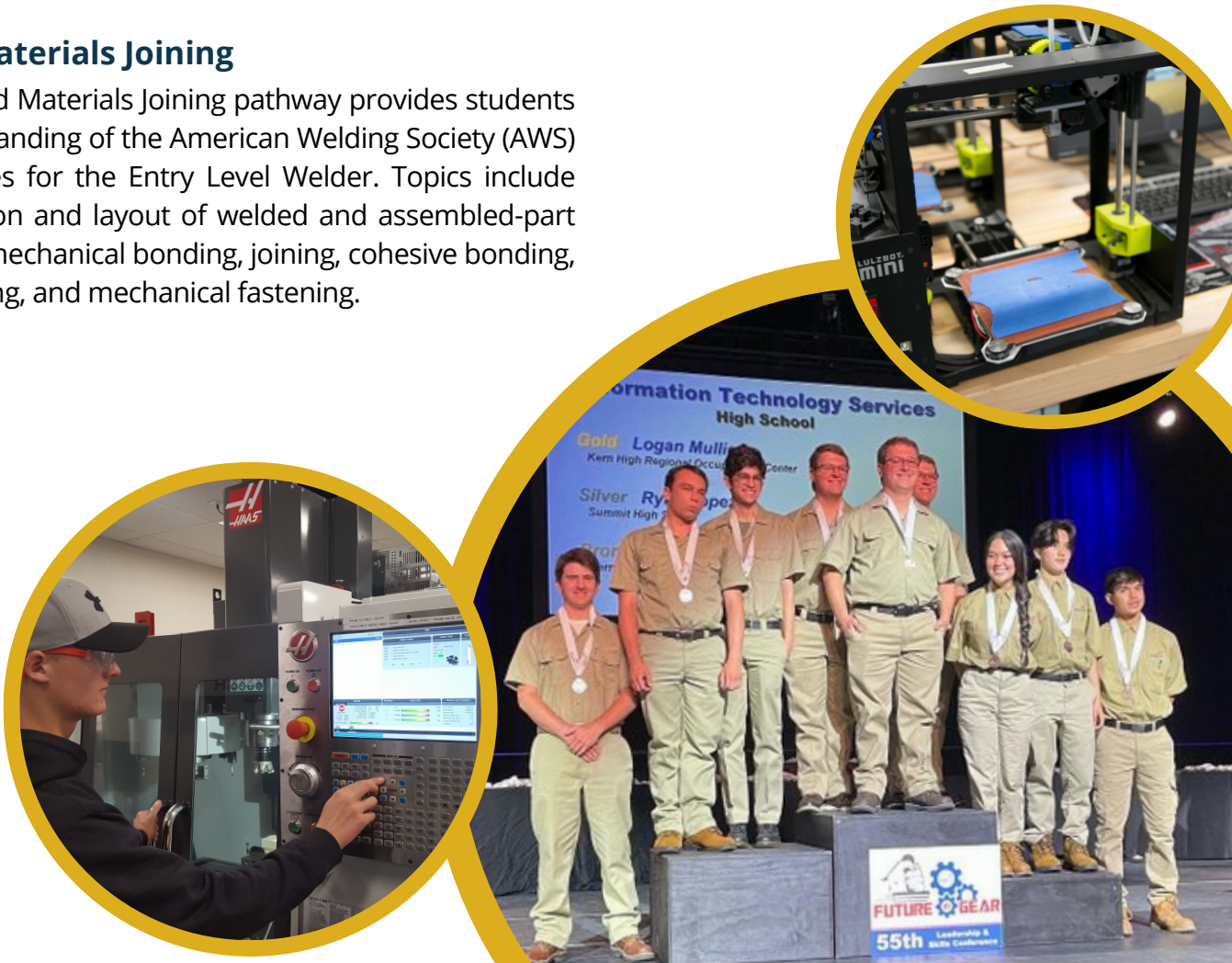
The Machine and Forming Technologies pathway provides students with an understanding of manufacturing trade vocabulary; shop math; basic material identification; proper use of hand and machine tools; reading precision measuring tools within .001" and the interpretation of machined and formed-part prints; the cutting, shaping, fastening, and finishing of machined parts (CNC); fixtures: forging, molding (casting), cold forming, and shearing processes.

Product Innovation & Design

The Product Innovation and Design pathway provides students with an understanding of the product design and development process, the principles of design, computer aided design, fabrication and manufacturing processes, sustainability, and the principles of business, entrepreneurship, and global design.

Welding & Materials Joining

The Welding and Materials Joining pathway provides students with an understanding of the American Welding Society (AWS) EG2.0 Guidelines for the Entry Level Welder. Topics include the interpretation and layout of welded and assembled-part prints, cutting, mechanical bonding, joining, cohesive bonding, adhesive bonding, and mechanical fastening.



Manufacturing & Product Development occupations include...

- Hydroelectric Production Managers - \$50 per hour*
- First-Line Supervisors of Production and Operating Workers - \$30 per hour*
- Chemical Plant and System Operators - \$34 per hour*
- Computer Numerically Controlled Machine Tool Programmers, Metal & Plastic - \$30 per hour*
- Aircraft Structure, Surfaces, Rigging, and Systems Assemblers - \$24 per hour*
- Tool and Die Makers - \$27 per hour*
- Model Makers, Metal & Plastic - \$27 per hour*
- Chemical Equipment Operators and Tenders - \$23 per hour*
- Machinists - \$23 per hour*
- Rolling Machine Setters, Operators, and Tenders, Metal & Plastic - \$22 per hour*

Fun Facts:

- Manufacturing is the largest industry in the United States and accounts for 12-percent of the U.S. Gross Domestic Product.
- Middle-skill occupations include Industrial Machinery Mechanics, Industrial Production Managers, and Electrical & Electronic Engineering Technologists and Technicians (COE).

*Median hourly earnings.

Data was collected from www.onetonline.org.





Help keep communities safe.

The Public Services Industry sector provides a foundation for students interested in being involved in their community and serving the public's interest. Careers in this sector often attract people who want to help their fellow citizens and make improvements to the community they serve.

Students can enroll in the following pathway:

Public Safety

The Public Safety pathway prepares students with a broad-based foundational knowledge in careers that involve public safety. Students will gain experience on the evolving integration of state public safety organizations, their connections with federal and state intelligence and security agencies, interoperability and coordination of effort, and the shared mission to protect the public in a post-9/11 world are areas of emphasis for the pathway.

Public Safety occupations include...

- Emergency Medical Technicians and Paramedics - \$17 per hour*
- Industrial-Organizational Psychologists - \$51 per hour*
- Forest Fire Inspectors and Prevention Specialists - \$21 per hour*
- Financial Examiners - \$39 per hour*
- Atmospheric and Space Scientists - \$45 per hour*
- Arbitrators, Mediators, and Conciliators - \$24 per hour*
- Biochemists and Biophysicists - \$49 per hour*
- Paralegals and Legal Assistants - \$27 per hour*
- Emergency Managements Directors - \$37 per hour*
- Animal Control Workers - \$19 per hour*

Fun Fact:

- Law, public safety, corrections, and security is projected to be the fourth-fastest growing career cluster.

*Median hourly earnings.

Data was collected from www.onetonline.org.



Transportation and Aviation



The skies the limit.

Transportation plays a crucial role in our society because moving people and goods is central to everything in America. Vehicle components and systems will continue to become increasingly sophisticated which, in turn, will require well-trained operators and maintenance and repair technicians.

Students can enroll in the following pathway:

Systems, Diagnostics, Service & Repair (Automotive)

The Systems Diagnostics, Service, and Repair pathway prepares students for post-secondary education and employment in the transportation industry, which includes but is not limited to motor vehicles, rail systems, marine applications, and small-engine and specialty equipment.

Operation (Aviation)

The Operations pathway prepares students for post-secondary employment and education in a variety of career opportunities in the transportation industry, including but not limited to harbors, ports, warehousing, marine applications, airplanes, trains, vehicles, and specialty equipment.

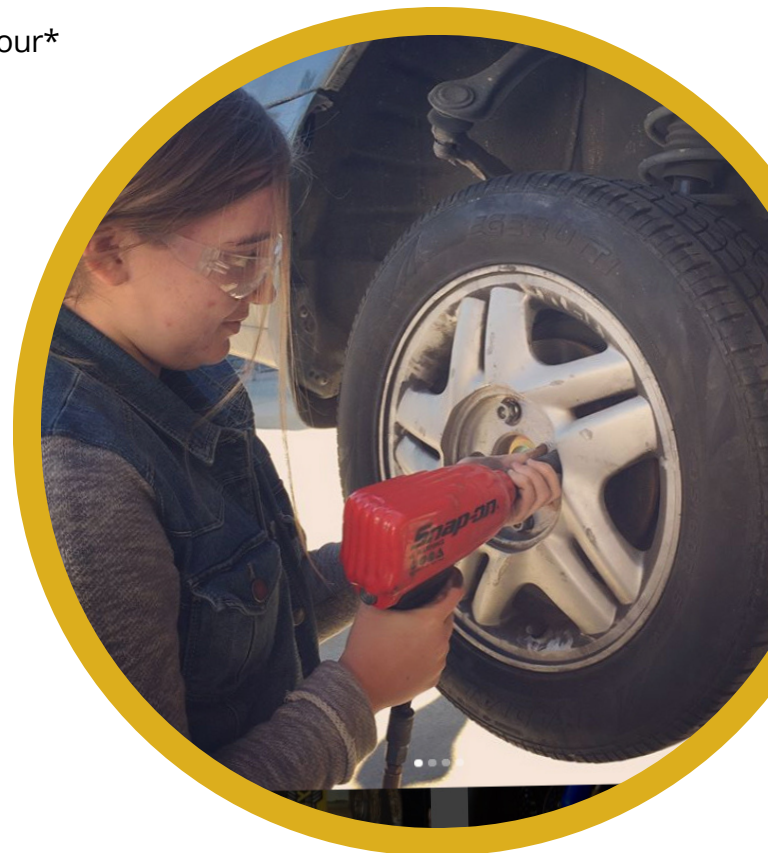
Transportation & Aviation Industry occupations include...

- Airline Pilots - \$202,180 annually**
- Loading Machine Operators, Underground Mining - \$23 per hour*
- Air Traffic Controllers - \$63 per hour*
- Logistics Analysts - \$37 per hour*
- Avionics Technicians - \$33 per hour*
- Aircraft Mechanics and Service Technicians - \$31 per hour*
- Locomotive Engineers - \$38 per hour*
- Railroad Conductors and Yardmasters - \$31 per hour*
- Crane and Tower Operators - \$30 per hour*
- Airfield Operations Specialists - \$23 per hour*
- Flight Attendants - \$61,700 annually**

Fun Fact:

- The transportation, distributions, and logistics industry moves more than 50 million tons of goods daily.

*Median hourly earnings. **Median annual wage.
Data was collected from www.onetonline.org.



Opportunities to earn college credit.

Students enrolled in CTE pathways have the opportunity to earn college credit. All three methods listed below provide high school students a jump-start on their education - saving valuable time and money in the process. In addition, students gain confidence in their ability to complete college work which should help them transition into post-secondary education much easier (College Credit 101, California Community Colleges).

High School Articulation

High school courses taken by high school students **during the traditional school day.**

- Aligned with a community college course in the same discipline.
- Taught by the high school faculty.
- Offered on the high school campus.
- Serves high school students only.
- Students apply for articulated credit upon enrollment at the local community college.

Dual Enrollment

Courses typically offered on the high school campus **outside of the traditional school day.**

- College courses taken by high school students.
- Typically taught by high school faculty who meet community college minimum qualifications.
- Serves primarily high school students.

Concurrent Enrollment

College courses taken by high school students **outside of the traditional school day.**

- Typically offered on a community college campus,
- Taught by community college faculty.
- Courses are open to the public.

Summer School for CTE Students

Students who are on a CTE pathway and need to take a general education course, but cannot fit it into their schedule may receive priority enrollment with permission of the CTE Department Chairperson.

- Sophomore year is generally the most impacted. Courses typically available during Summer School for CTE advancement include Fine Arts, World History, and Physical Education.
- CTE courses are not offered during Summer School.



Articulated College Courses

An articulation agreement exists with all colleges in the Riverside Community College District, Mt. San Antonio College, Norco College, and Cerritos College. **Please check with your high school counselor for additional information as courses may have changed.**

- 3D Digital Modeling
- Agricultural Biology 1A/1B
- Agriculture Mechanics 1A/1B
- Anatomy and Physiology 1A/1B
- Architectural Design 1A/1B
- Business Law 1A/1B
- Business of Video Games
- Business Management and Leadership 1A/1B
- Computerized Accounting 1A/1B
- Computer-Aided Drafting 2A/2B
- Concept Art
- Digital Photography 1A/1B
- Equine Science
- Game Design
- Game Scripting
- History of Video Games
- Horticulture Science
- Introduction to Business 1A/1B
- Introduction to Engineering Design 1A/1B
- Medical Anatomy & Physiology 1A/1B
- PLTW Aerospace Engineering
- PLTW CIM 1A/1B
- PLTW Intro to Engineering Design 1A/1B
- PLTW Engineering Design Development 1A/1B
- PLTW Principles of Engineering 1A/1B
- Photography 1A/1B
- Robotics 1A/1B
- Sports Medicine and Therapeutic Sciences 1A/1B
- Sports Medicine and Therapeutic Sciences 2A/2B
- Technology Applications 1A/1B
- Veterinary Science 1A/1B

What is articulation?

High School Articulation is a process in which high school CTE courses are deemed equivalent to college CTE courses through a formal agreement. College credit will be awarded to students that successfully pass the course according to the terms of the agreement.

Articulation reduces the need for students to repeat coursework in college and facilitates a smooth transition from secondary to post-secondary education. It allows students to more efficiently reach their educational and career goals.



Industry Certification Opportunities

- Adobe Certified Associate
- Adobe Illustrator
- Adobe InDesign
- Adobe Photoshop
- Adobe Premiere
- ASE Entry Level
- AutoCAD
- AutoDesk: Fusion 360
- AutoDesk: Maya
- AVID Media Composer
- Basic Life Support (AHA)
- Blood-Borne Pathogen
- Canon
- Coding in Minecraft
- Cold Laser Therapy
- CompTIA IT Fundamentals
- CompTIA Security+
- CompTIA CySA+
- CPR
- CPR/First Aid: Culinary
- Digital Marketing Associate
- EC-Council (Cybersecurity)
- Electric Vehicle Safety
- Entrepreneurship & Small Business
- Everfi Financial Literacy
- Excel Expert
- Final Cut Pro
- Food Handlers
- Haas Lathe Operator
- Haas Mill Operator
- Hands-Only CPR
- Heart Illness Certification
- HVAC
- IC3: Internet Computing Certification
- IC3: Digital Literacy
- Information Technology Specialist
- Lifting It Right
- Lightroom Certification
- MasterCAM
- Mental Health First Aid
- Microsoft Office 365
- Microsoft Office Master
- Microsoft Office Specialist
- Microsoft Word Expert
- MOS
- Nutrition Basics Certification
- OSHA 10 & OSHA 30
- OSHA 10: Construction
- OSHA 10: Culinary Arts
- OSHA 10: Health Science
- Preparing a vehicle for service & working with customers
- Professional Photographer
- Recreational FAA Drone
- QPR
- Revit Certified User
- Revit Certified Professional
- S/P2 Auto Service Safety
- S/P2 Auto Service Pollution Prevention
- S/P2 Collision Repair
- ServSafe Managers
- Snap On: Auto Service Information
- Snap On: Engine Diagnostics
- Snap On: Digital Multimeter
- Snap On/NC3 in Battery, Starting & Charging
- Snap On: Precision Measurement
- Soft Skills
- SolidWorks
- Student Mental Health
- Sudden Cardiac Arrest
- Unity Certified User
- Unity Certified User: Artist
- Unity Certified User: VR Developer
- Unity Programmer
- Valvoline Oil, Fluids, and Chemicals

Student Youth Organizations (CTSO)

What is a Career Technical Student Organization?

Career Technical Student Organizations (CTSO) work as an integral component of the classroom curriculum and instruction. CTOS build upon employability and career skills and concepts through the application and engagement of students in hands-on demonstrations and real life and/or work experiences. To learn more about Career Technical Student Organizations, visit www.ctsos.org.

- Family, Career & Community Leaders of America (FCCLA)
- Future Business Leaders of America (FBLA)
- National Future Farmers of America Organization (FFA)
- HOSA - Future Health Professionals
- SkillsUSA

Note: Industry Certification Opportunities and Student Youth Organizations vary by school site and are subject to change.



Purpose of an Advisory Committee

The Career Technical Advisory Committee plays a vital role in CTE programs. Consisting of Business & Industry, Government, Academia, and Non-profit representatives, the Advisory Committee provides needed information on careers and employment requirements.

Advisory committees are established systems for using laypersons to assist professional educators. With the increased need for rapid change in this technological age, there is a growing appreciation of the help provided by industry representatives serving on local advisory committees.

In addition, students must be trained for today's jobs as well as new opportunities that become available. There will be an increased need for people trained in specialized technical occupations. Advisory committees help CTE teachers stay abreast of these changing employment trends and opportunities.

Functions of the CTE Advisory Committee

- Help to determine what types of CTE programs and industry pathways are offered.
- Assist in identifying and procuring needed equipment to advance learning.
- Assist the teacher(s) in finding suitable opportunities (internships, work-study, cooperative learning, partnerships) for students in the various industry sectors and pathways.
- Help the instructor establish curriculum that has a hands-on, technological approach.
- Help to evaluate the effectiveness of CTE programs.
- Help the teacher(s) develop a list of capable resource persons for use as speakers, and/or judges for both in-school and out-of-school tests and contests.
- Assist the teacher in determining the skills needed for careers at entry, technical, and professional levels so that they may be taught in the instructional program.
- Provide teachers with technical assistance and keep them aware of new developments in the local industry sectors and pathways.
- Serve as speakers at panel discussions, open houses, and career days to tell the story of school-industry cooperation.
- Assist in procuring opportunities to upgrade the teacher's technical skills and knowledge.



Career Technical Education Business Partnerships

CNUSD is committed to outreach with local and regional businesses and organizations with the purpose of augmenting career-readiness for K-12 students. Business partners provide career and industry information for students, hands-on career activities, such as mock-interviews, and state of the art industry training for teachers.

Business Partner activities include the following:

- CTE Leadership Academy Visits
- Student Internships
- Professional Learning for Teachers
- Company Tours
- Job Shadows
- Classroom Speakers
- Intermediate/Middle School Youth Education Motivational Program (YEMP) Career Days
- Annual CTE Career Day and Expo
- School and Industry Advisory Committees
- Monthly CTE Live Industry Spotlight

Business Partnerships represent all industries and occupations. Business Partners include:

- Altura Credit Union
- Boudreau Pipeline
- Building Industry Trade Association
- Cal Baptist Aviation
- Cal Baptist Nursing
- Cal Fire
- Cal Trans
- California Manufacturing Network
- Cities of Corona, Eastvale, and Norco
- Chick-fil-A
- Inland Empire Desert Regional Colleges
- Inland Latino Lawyers Association
- Inland Empire Utilities Agency
- Federal Bureau of Investigation
- Fender Music
- Kaiser Permanente
- March Air Reserve Base
- Metropolitan Water District
- Naval Surface Warfare Center
- Norco College
- Ontario Convention Center
- Organization of Black Aerospace Professionals
- Pacific Sunwear
- Professional Women in Building
- Riverside County District Attorney Office
- Riverside County Transportation
- Southern California Edison
- Southwest Carpenters
- UCR Engineering
- UCR Medical School
- United Airlines

Interested in becoming a Business Partner to help support CTE career-related activities and prepare the future workforce? Contact Linnie Bailey at linnie.bailey@cnusd.k12.ca.us.



Purpose of CTE Leadership Academy

The purpose of the CTE Leadership Academy is to engage CNUSD counselors, CTE teachers, and administrators with local industry partners to inform them about the work-based learning opportunities that are available to students to access high-wage careers across the Inland Empire. The CTE leadership academy hosts 25 CNUSD K-12 counselors and site administrators each school year.

The industry sector visits include but aren't limited to:

- Building and Construction
- Healthcare
- Hospitality and Tourism
- Manufacturing
- Public Service

In many cases, participants get a hands-on, interactive experience at the employer site. The main takeaway of this exercise is what can be done to prepare our students for careers in various industries including internships while in school, training required after high school, professional development for teachers, etc.



Interested in learning more about Career Technical Education?

Elementary School

- Attend Annual CTE Expo in the Fall to learn about 7th-12th grade pathways.
- Visit www.cnusd.k12.ca.us/cte to view CTE Spotlight & Do-It-Yourself videos
- **5th and 6th graders** select a pathway at an intermediate school that interests you.
 - Please note: If you live outside of that school boundary, you will need to apply for a transfer. Visit www.cnusd.k12.ca.us/transfer for more information.
- **6th graders**, talk with your future intermediate school counselor to enroll in a CTE pathway.

Intermediate School

- Attend Annual CTE Expo in the Fall to learn more about 7th-12th grade pathways.
- Visit www.cnusd.k12.ca.us/cte to view CTE Spotlight & Do-It-Yourself videos or to learn about industry opportunities from our business partners.
- Select a pathway that interests you at one of our high schools.
 - Please note: If you live outside of that school boundary, you will need to apply for a transfer. Visit www.cnusd.k12.ca.us/transfer for more information.
- **8th graders**, talk with your future high school counselor to enroll in a CTE pathway.
- Engage with local business leaders by participating in your school's Youth Education Motivation Program Career Day (YEMP).

High School

- Complete your CTE courses according to your 4-year plan.
- Ask your CTE teachers about earning an industry certification(s) within your pathway.
- Ask your school counselor how to earn college credit through dual enrollment and articulated courses.
- **11th & 12th graders**, attend the Fall Career Day, participate in mock interviews, and attend speaker panels to learn from industry partners.
- Visit www.cnusd.k12.ca.us/cte to learn about industry opportunities.
- Ask your teacher about job shadow and internship opportunities with an industry within your pathway.
- Work with your CTE teacher and school counselor to consider your post-secondary plan (trade school, college, military or career).
- Participate and ask questions during Industry Career Webinars.
- Sign up for ongoing mock interviews with our business partners.



Interested in learning more about Career Technical Education? Check out the following resources:

- CNUSD CTE: www.cnusd.k12.ca.us/cte
 - Programs offered at CNUSD
- O*NET: www.onetonline.org
 - Emerging Occupations, Definitions, KSA, Job Zones
- American Fact Finder: www.factfinder.census.gov
 - Population Data
- MIT Living Wage Calculator: www.livingwage.mit.edu
 - Self-sustainability wages
- CA EDD LMID Occupational Guides: www.labormarketinfo.edd.ca.gov
 - California occupational guides, profiles, and licensing
- Bureau of Labor Statistics: www.bls.gov
 - Labor Statistics

Career Exploration Resources

- California Career Zone: www.cacareerzone.org
- Career Cafe: www.cacareercafe.com
- Who Do U Want 2b: www.whodouwant2b.com
- Do What You Love (STEM Jobs): www.stemjobs.com
- ASVAB Career Exploration Program: www.asvabprogram.com
- Today's Military: www.todaysmilitary.com

Higher Education Resources

- California Colleges: www.californiacolleges.edu
- California State University: www.calstate.edu
- Cerritos College: www.cerritos.edu
- Chaffey College: www.chaffey.edu
- Federal Financial Aid: www.studentaid.ed.gov
- Moreno Valley College: www.mvc.edu
- Mt. San Antonio College: www.mtsac.edu
- Norco College: www.norcocollege.edu
- Orange Coast College: www.prod.orangecoastcollege.edu
- Riverside City College: www.rcc.edu
- University of California: www.universityofcalifornia.edu





Nondiscrimination Statement

The Corona Norco Unified School District is committed to equal opportunity for all individuals in education and in employment and does not discriminate on the basis of actual or perceived ancestry, age, color, physical or mental disability, medical condition, gender, gender identity, gender expression, nationality, national origin, immigration status, race or ethnicity, ethnic group identification, religion, sex, sexual orientation, marital or parental status, pregnancy, or genetic identification, or association with a person or group with one or more of these actual or perceived characteristics. The Board prohibits, at any district school or school activity, unlawful discrimination, harassment (including sexual harassment), intimidation, and bullying of any student based on the protected characteristics named above.

For any concerns or questions regarding discrimination, equity, Title II, CCR Title 5 or Title IX, please contact:

Dr. RoseMarie Hickman, Coordinator, Human Resources
rosemarie.hickman@cnusd.k12.ca.us
Corona-Norco Unified School District
2820 Clark Avenue Norco, CA 92860
(951) 736-5000

For any allegations under Section 504 of the Rehabilitation Act of 1973, please contact:

tmthompson@cnusd.k12.ca.us
Tricia Thompson, Administrative Director, Student Services
Corona-Norco Unified School District
2820 Clark Avenue Norco, CA 92860
(951) 736-5111

