

# CAREER TECHNICAL EDUCATION

## Governing Board Report October 2017



**Clovis High School  
Residential and Commercial Construction**



**Clovis East High School  
Agriculture**



**Clovis North High School  
Patient Care**



**Clovis West High School  
Systems Diagnostics, Service, and Repair**



**Buchanan High School  
Design, Visual, and Media Arts**

**Submitted by  
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Curriculum, Instruction, & Accountability**

**CLOVIS UNIFIED SCHOOL DISTRICT**

**VISION**

**To be America’s benchmark for excellence in education**

**CAREER TECHNICAL EDUCATION**

**MISSION**

**To provide innovative Career Technical Education through high quality, rigorous educational pathways developed in partnership with business and industry allowing students to pursue their passions while becoming college and career ready**

The purpose of Clovis Unified School District’s Career Technical Education (CTE) pathways are to:

- provide high skill, high demand, and living age career opportunities for CUSD students
- prepare students for the rigor and relevance of college and career readiness
- assist students with making academic and career choices that will lead to the successful matriculation into post-secondary education and a career

CUSD has made consistent effort toward identifying classes and pathways that emphasize student interest, industry relevance, and market demand.

<b>GOALS</b>	<b>OUTCOMES</b>
Increase student enrollment in CTE courses	Student enrollment in CTE courses has increased 4.8%.
Increase articulated CTE Pathways	Articulated CTE Pathways have increased to include: Education, Environmental Engineering, Environmental Resources, Agricultural Mechanics, Agricultural Science, Animal Science, Plant and Soil Science, Software and Systems Development, Financial Services.
Increase business and industry partnerships	Business and industry partnerships have increased by 32%.
Increase the number of industry certifications available for students to earn in CTE Pathways to demonstrate college and career readiness upon graduation from high school.	Industry certifications have increased in the following CTE Pathways: Education, Food Services and Hospitality, Game Design & Simulation, Patient Care, Residential and Commercial Construction, and Automotive Systems Diagnostics, Service, and Repair.

<p>Increase the number of work-based offerings aligned with CTE courses and including articulation with local community colleges and universities.</p>	<p>Work-based learning opportunities increased through establishment of new partnerships in the Environmental Engineering, Animal Science, Patient Care, and Financial Services pathways. Pathway courses articulate with Clovis Community College, Fresno City College, Reedley College and California State University, Fresno.</p>
<p>Collaborate with local community colleges to increase dual enrollment opportunities and provide CUSD students opportunities to earn college level credit while in high school.</p>	<p>10% of current CTE courses have dual enrollment with local community colleges.</p>

### **California Career Pathways Trust**

The Establishment and Enhancement of Education Pathways (E3P) Project is a two-year, \$2.5 million grant designed to leverage and build on a number of existing partnerships and resources to establish a robust grades 9-16 education careers pathway. The E3P consortium includes three school districts – Clovis, Madera, and Sanger; three community colleges – Clovis, Madera, and Reedley; a four-year institution – California State University Fresno; and seven business partners – California Teaching Fellows Foundation, Project Tomorrow, Central Valley Higher Education Consortium, Educational Research Consultants, Solunet, Treasures for Teachers, and KSEE 24.

The overarching goal of the California Career Pathways Trust is to build robust partnerships between employers, schools, and colleges in order to better prepare students for the 21st century workplace and improve student transition into postsecondary education, training, and employment. Providing students with sustainable work-based learning and occupational skills training is the focus and goal of this grant program.

The benefits of the education pathway include earning college credits at no cost through dual enrollment courses; connecting students to college through a regional conference for future teachers at Clovis Community College and provides enrichment activities at Fresno State, such as Saturday Academy, Youth Technology Institute (STEM focused), and College Next! Boot Camp; participating in a writing workshop to improve writing skills and boost student performance; opportunity for paid internships for students working in summer and/or after school programs while in high school and college; scholarship potential for pathway students attending Fresno State; and imbedded tutoring once students reach community college and California State University, Fresno. Students have the opportunity to take and pass the California Basic Educational Skills Test (CBEST) while in high school which is required to enter any credential program. Students may also take the Para-professional Exam while in high school and earn a certificate for employment as an instructional assistant once a high school graduate. Both exams are offered at no charge to the student.

With the high demand for new qualified K-12 teachers in the Central Valley, the education pathway program will train students for careers as instructional assistants, teachers, counselors, school

psychologists, principals, and even future superintendents! The “Grow Our Own” philosophy will enable students to return to their districts once they have completed a credential program.

As we begin the 2017-2018 school year, there are **475 students participating** in the education pathway at Clovis Unified’s five comprehensive high schools, and **225 students** are participating in dual enrollment. The four pathway courses offered to high school students are:

Grade 10 - *Exploration of Child & Adolescent Literature* – a weighted college prep honors English course

Grade 11 - *Careers with Children* – a dual enrollment course with *Child Development 1* for 3 units

Grade 11 – *Contemporary Issues in Education* - a weighted college prep honors English course

Grade 12 – *Education Careers* – a dual enrollment course with *Education 10* for 3 units

### **Career Technical Education Incentive Grant (CTEIG)**

The CTEIG is a three-year, \$2.5 million grant funded by the state with matching funds from CUSD. The goal of this grant is to provide students with the knowledge and skills necessary to transition to employment and postsecondary education. The purpose of this program is to encourage the development of new career technical education (CTE) programs and enhance current CTE programs.

The CTEIG requires that all career technical education programs achieve full compliance with the ten minimum requirements during the first year of funding.

- Offer high quality curriculum and instruction aligned with the California CTE Model Curriculum Standards. CTE courses that enable students to transition to postsecondary education programs leading to a career pathway or employment upon graduation from high school.
- Provide students with career exploration and guidance.
- Provide student support services, including counseling and leadership development.
- Provide for articulation with local industry partnerships and postsecondary institutions which include formal written agreements.
- Form industry and labor partnerships through participation on advisory committees, documented through formal written agreements.
- Provide opportunities for students to participate in after school, extended day, and out-of-school internships, competitions, and other work-based learning opportunities.
- Reflect regional or local labor market demands with a focus on current or emerging high-skill, high-wage, or high-demand occupations.
- Lead to an industry-recognized credential or certificate, or appropriate postsecondary training or employment.
- Is staffed by skilled CTE credentialed teachers or faculty and provides professional development opportunities for those teachers and faculty.
- Report data to allow for evaluation of the program.

## **Clovis Unified School District INDUSTRY SECTORS**



### **AGRICULTURE AND NATURAL RESOURCES (Clovis East High School)**

Agriculture is California's most important economic industry. California is often called the breadbasket of the world. A strong demand exists for well-trained, environmentally-sensitive individuals to provide the state, nation, and world with food, fiber, and a healthy environment. The Agriculture and Natural Resources Sector emphasizes real-world, occupationally-relevant experiences. Classroom and laboratory instruction, supervised agricultural experience, projects, leadership, and interpersonal skill development activities prepare students for advanced training, higher education, and career entry.



### **ARTS, MEDIA, AND ENTERTAINMENT**

**(Buchanan High School, Clovis West High School, CART)**

The Arts, Media, and Entertainment Sector offers a broad range of employment opportunities. The variety of careers in this sector can accommodate different personalities ranging from actors actresses and professional gamers to multi-tasking managers. Work is often project-based, requiring time management skills with the ability to meet strict deadlines. Academic studies are needed to understand and keep up with changing technology used in this industry. A broad academic background and interpersonal skills are also valuable. Participating in the arts promotes teamwork, communication skills, critical thinking, and decision-making abilities.



### **BUSINESS AND FINANCE (Clovis West High School)**

Business relies on financial and personnel managers to keep companies running smoothly. The pathways in the Business and Finance Sector are key to successful business operations and offer a multitude of career opportunities. Students will discover that accounting skills are highly marketable and provide opportunities in many other career paths. Pathway instruction includes basic accounting principles and procedures, as well as computer applications, taxes, investments, and asset management. Someone with an understanding and an affinity for mathematics would thrive in the Finance and Business Sector.



## **BUILDING AND CONSTRUCTION TRADES (Clovis High School)**

The Building and Construction Trades pathways provide opportunities with a variety of construction skills, directly associated with completing building projects. High school curriculum in this sector integrates academic and technical preparation and leads to hands-on, work-based instruction. Project and work-based instruction offers opportunities in work experience, community classroom, or other internship types of instruction.



## **EDUCATION, CHILD DEVELOPMENT, AND FAMILY SERVICES**

**(Buchanan High School, Clovis East High School, Clovis High School, Clovis North High School, Clovis West High School)**

With a large number of employees predicted to retire from education, child development, and family services in the next decade, a wealth of career opportunities will be available. Opportunities are available to teach children from preschool to high school, or as a college professor. Jobs are available for all levels of education. Training combines classroom instruction with hands-on community work experience.



## **ENERGY, ENVIRONMENT, AND UTILITIES (Buchanan High School)**

Utilizing renewable energy and sustainable resources will impact our future for generations to come. Hydroelectric, geothermal, and nuclear power are part of the current resources. Doing more with less will likely be a focus of future research and development. Pollution created by energy and utility use poses a significant challenge for environmentalists and scientists now and in the future. Improving the recycling of waste materials from trash to sewage will offer many employment opportunities in the Energy and Utilities Industry Sector.



## **ENGINEERING AND ARCHITECTURE (Clovis High School, CART)**

The Engineering and Architecture Pathway provides learning opportunities for students interested in the safety, cost, design, and construction of a building. Work elements of this pathway often involve working in conjunction with an architect. Students interested in this pathway should possess artistic ability and strong mathematical skills.



## **HEALTH SCIENCE AND MEDICAL TECHNOLOGY**

**(Buchanan High School, Clovis East High School, Clovis North High School, CART)**

Health care is one of the fastest growing career sectors. The Health Science and Medical Technology Sector require academic and technical skills, as well as related knowledge necessary for the field. These careers range from entry level to management, including technical and professional specialties. Workers in this field need the knowledge and ability to contribute to the delivery of safe and effective health care. Nearly half of the careers in this area require professional level preparation. Students commonly need the academic background required for entry into postsecondary education.



## **HOSPITALITY, TOURISM, AND RECREATION (Buchanan High School)**

The Hospitality, Tourism, and Recreation Industry Sector encompasses many different yet interrelated careers. Students who follow this sector are eligible for positions throughout the world with great potential for advancement. Whether you have a passion for cooking, travel, sports, or nutrition, this career pathway will give you the education and experience necessary to become successful.



## **INFORMATION AND COMMUNICATION TECHNOLOGIES (CART, CNEC)**

Information technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services. No other career sector offers as much diversity as information technology. You can take the skills learned in these pathways and apply them to any sector of our economy. With organizations continually integrating sophisticated technology into their companies, the employment opportunities for technology support specialists is expected to grow faster than the average for all other occupations.



## **MANUFACTURING AND PRODUCT DEVELOPMENT (CART)**

The Manufacturing and Product Development Sector provides a foundation in manufacturing processes and systems. 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 for sale. As our world becomes more dependent on electronics, students with training and education in manufacturing and product development will continue to be in high demand. The Manufacturing and

Product Development Sector is for students who enjoy working with their hands, building or designing infrastructures, and expressing themselves artistically.



### **PUBLIC SERVICES (Clovis East High School)**

The Public Services Industry Sector provides a foundation for students interested in being involved in their community and serving the public's interest. Careers range from public safety to community outreach, and everything in between. Because of heightened interest in homeland and border security, employment growth in this sector is projected at over 20% in the near future. Students engage in an instructional program that integrates academic and technical preparation and focuses on career awareness, exploration, and skill preparation. Community service, internships, and work experience go hand in hand with classroom instruction.



### **TRANSPORTATION (Clovis High School, Clovis West High School)**

Transportation plays a crucial role in our society. Vehicle components and systems will continue to become increasingly sophisticated which, in turn, will require well-trained operators and maintenance and repair technicians. Examples of future transportation technology include rocket technology, super-capacity jet airplanes, hybrid, bio-diesel, and hydrogen fuel-cell technology involving automobiles and trucks.

Vehicle service and repair is now a highly skilled profession that requires more problem solving skills. In addition to cars and trucks, the motor vehicles category includes boats, motorcycles, trains, and outdoor power equipment. All require specific knowledge in order to be serviced, repaired, and maintained properly.

**CLOVIS UNIFIED SCHOOL DISTRICT**

**BUCHANAN HIGH SCHOOL**

<b>PATHWAY</b>	<b>COURSE</b>	<b>F</b>	<b>M</b>	<b>TOTAL</b>	<b>A-G or ELECTIVE CREDIT</b>	<b>TEACHER</b>
<b>DESIGN, VISUAL, AND MEDIA ARTS</b>	<i>Introduction to Digital Photography (P)</i>	12	17	29	Visual Arts (F)	William Herring
	<i>Journalism &amp; Publishing</i>	10	8	18	English 11/12 English (B)	Sara Hanson
	<i>Publishing Management</i>	6	0	6	Elective	Sara Hanson
<b>EDUCATION</b>	<i>Contemporary Issues in Education (w/Eng 11 HP)</i>	17	6	23	English (B)	Ed Folsom
	<i>Exploration of Child and Adolescent Literature (w/Eng 10 HP)</i>	33	6	39	English (B)	Allison Swearngen
	<i>*Education Careers (w/Eng 11/12 P)</i>	33	4	37	English 11/12 English (B)	Sara Hanson
<b>ENVIRONMENTAL ENGINEERING</b>	<i>Chemistry/Environmental Engineering (P)</i>	58	92	150	Physical Science (D)	Kendia Herrington
	<i>Introduction to Engineering Design (P)</i>	10	47	57	Interdisciplinary (G)	Daniel Samarin
	<i>Principles of Engineering (P)</i>	7	20	27	Interdisciplinary (G)	Daniel Samarin
<b>ENVIRONMENTAL RESOURCES</b>	<i>Biological Links to Energy and Environment</i>	51	92	143	Biological Science (D)	Sasha Ludwig
	<i>Environmental Sustainability</i>	9	14	23	Life Science (G)	Sasha Ludwig
	<i>Energy Technology I</i>	6	24	30	Science-Physical (G)	Richard Kinney
<b>PRODUCTION AND MANAGERIAL ARTS</b>	Digital Film Making (P)	19	46	65	Visual Arts (F)	Daniel Pearce
	Videography 1AB (P)	12	43	55	Visual Arts (F)	Daniel Pearce
	Videography (P)	7	23	30	Visual Arts (F)	Daniel Pearce
<b>FOOD SERVICES AND HOSPITALITY</b>	<i>Food Science and Nutrition</i>	28	29	57	Elective	George Bonanno
	<i>Hospitality Management</i>	11	15	26	Elective	George Bonanno
	<i>Culinary Arts</i>	20	10	30	Elective	George Bonanno
<b>PATIENT CARE</b>	<i>Medical Health Careers</i>	21	9	30	Elective	Kelly Bettencourt
	<i>Sports Medicine/Fitness</i>	45	25	70	Elective (G)	Kelly Bettencourt
<b>NON-PATHWAY CLASSES</b>	<i>Basic Automotive</i>	4	22	26	Elective	Bill January
	<i>Basic Woodworking</i>	0	25	25	Elective	Bill January
	<i>Furniture as Art</i>	3	11	14	Elective	Bill January
	<i>Entrepreneur &amp; Marketing</i>	12	18	30	Elective	Linda Bone
	<i>Marketing Management II</i>	2	6	8	Elective	Linda Bone
<b>Total Enrollment</b>		<b>436</b>	<b>612</b>	<b>1048</b>		

—————CSU/UC Approved Courses: A-G = A-History/Social Science; B-English; C-Mathematics; D-Laboratory Science; E-Language Other Than English; F-Visual & Performing Arts; G-Elective

*Bolded courses are new for 2017-2018.*

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**BUCHANAN HIGH SCHOOL**

<b>PATHWAY</b>	<b>PARTNERSHIPS</b>	<b>CERTIFICATIONS</b>	<b>CTE STUDENT ORGANIZATIONS</b>
<b>DESIGN, VISUAL, AND MEDIA ARTS</b>	Larson Brothers	TBD	Skills USA
<b>EDUCATION</b>	Clovis Unified School District Madera Unified School District Sanger Unified School District Clovis Community College Madera Community College Reedley College Fresno State University California Teaching Fellows Foundation Project Tomorrow Central Valley Higher Education Consortium Educational Research Consultants Solunet Treasures for Teachers KSEE 24	CBEST Exam Para-professional Certificate	Educators Rising
<b>ENVIRONMENTAL ENGINEERING</b>	Juan Gonzalez – Gonzalez Architects Inc. Keith Putrika, Farbod Khoshnoud, & Mazen Eldeeb - CUSF David Le – ADCO Laura Gordon & John Carter – Caltrans Robert Martinez – FCC Anna Martinez – CCC Joe Hopkins, P.E. - Provost & Pritchard Consulting Group Hector Lara – Rio Bravo Power Plant Allan Taylor – EMCOR Michael Adams – Central Valley Robotics	OSHA 10 Hour General Industry	Skills USA
<b>ENVIRONMENTAL RESOURCES</b>	Leon Penny – Water Production Manager – City of Clovis Stuart Ogren – CUSD Energy Management Coordinator Charlie Harris – Life Flower Technology Erik Swanson - Waste Management, Kettleman Hills Facility. Anthony Toto – State Water Resource Control Board Joe Hopkins, Provost & Pritchard Consulting Group	OSHA 10 Hour General Industry	Skills USA

<b>PRODUCTION AND MANAGERIAL ARTS</b>	Fenceline Media Floodgate Productions KSEE 24	TBD	Skills USA
<b>FOOD SERVICES AND HOSPITALITY</b>	Colton's Social Club Eddies Bakery Elbow Room REV Restaurant	Servsafe, Hospitality	Skills USA
<b>PATIENT CARE</b>	Atlas Wellness Center Creative Therapeutics PT Dynamic Kids, Inc. Fresno City College Function & Action Therapy Horizon Health and Subacute Center ICan Triathlon Club Synergy Physical Therapy	Medic first aid/CPR/AED NFHS concussion Blood borne pathogens	Skills USA

**CLOVIS UNIFIED SCHOOL DISTRICT**

**CLOVIS EAST HIGH SCHOOL**

<b>PATHWAY</b>	<b>COURSE</b>	<b>F</b>	<b>M</b>	<b>TOTAL</b>	<b>A-G or ELECTIVE CREDIT</b>	<b>TEACHER</b>
<b>AGRICULTURE MECHANICS</b>	<i>Ag Engineering I</i>	15	59	74	Elective	Steve Gambril Gregory Ravy
	<i>Ag Mechanics II &amp; III</i>	5	39	44	Elective	Steve Gambril
	<i>Welding Processes &amp; Fabrication</i>	1	30	31	Elective	Gregory Ravy
<b>AGRICULTURE SCIENCE</b>	<i>Adv. Interdisciplinary Science for Sustainable Ag</i>	9	7	16	Interdisciplinary (D)	Steve Gambril
	<i>Ag Science I</i>	18	8	26	Elective	Ken Dias
	<i>Ag Earth Science (P)</i>	16	16	32	Other (G)	David Valdez
	<i>Biology and Sustainable Ag (P)</i>	51	55	106	Biological Science (D)	Aerial Covey
	<i>Chemistry and Agriscience (P)</i>	56	40	96	Lab Science (D)	Amanda Shoffner
	<i>Food Science</i>	10	9	19	Elective	Jennifer Knight
<b>ANIMAL SCIENCE</b>	<i>CDE Animal Science</i>	19	5	24	Elective	Jennifer Knight
	<i>Veterinary Science</i>	25	4	29	Science-Biological (G)	Jennifer Knight
<b>PLANT AND SOIL SCIENCE</b>	<i>Adv Floral Design</i>	13	4	17	Visual Arts (F)	Aerial Covey Amanda Shoffner
	<i>Art &amp; History of Floral Design</i>	54	19	73	Visual Arts (F)	Aerial Covey
	<i>Plant Production Management</i>	8	6	14	Elective	Steve Gambril
<b>EDUCATION</b>	<i>*Careers with Children</i>	20	3	23	Elective	Andrea Brazil
	<i>Contemporary Issues in Education (w/Eng 11 HP)</i>	34	16	50	English (B)	Carol Vande Kerkhoff Sheng Vu
	<i>*Education Careers (w/Eng 11/12)</i>	22	1	23	English 11/12 English (B)	Shelley Lane
	<i>Exploration of Child and Adolescent Literature (w/Eng 10 HP)</i>	84	23	107	English (B)	Shelley Lane Janis Ziese

<b>EMERGENCY RESPONSE</b>	<i>Fire Fighting I &amp; II</i>	5	58	63	Elective	Randy Finfrock
<b>PATIENT CARE</b>	<i>Medical Careers</i>	6	51	57	Elective	Kelly Eichmann
<b>PUBLIC SAFETY</b>	<i>Criminal Investigation</i>	36	33	69	Elective	Timothy Hahn
	<i>Criminal Justice</i>	11	23	34	Elective	Timothy Hahn
<b>Total Enrollment</b>		<b>518</b>	<b>509</b>	<b>1027</b>		

CSU/UC Approved Courses: A-G = A-History/Social Science; B-English; C-Mathematics; D-Laboratory Science; E-Language Other Than English; F-Visual & Performing Arts; G-Elective

*Bolded courses are new for 2017-20178*

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## CLOVIS EAST HIGH SCHOOL

PATHWAY	PARTNERSHIPS	CERTIFICATIONS	CTE STUDENT ORGANIZATIONS
<b>AGRICULTURAL MECHANICS</b>	B & N Enterprises Fresno City College Chuck West Manufacturing DeAnda Enterprises Fresno Oxygen Graylift Warehouse Systems	OSHA certification, NCCR certification	Future Farmers of America (FFA)
<b>AGRICULTURAL SCIENCE</b>	NRCS Engineers Connor Animal Products	California Food Handler certification, HACCP certificate	Future Farmers of America (FFA)
<b>ANIMAL SCIENCE</b>	Armstrong Pet Hospital Black Fence Farms Clovis Equine Clinic Clovis Pet Hospital Country Veterinary Clinic Fresno State Beef Cattle Unit Nichols Family Farm San Joaquin Veterinary	TBD	Future Farmers of America (FFA)
<b>PLANT AND SOIL SCIENCE</b>	Allen Farms McFarlane Farms P & R Farms Schueler Landscape & Irrigation	Students of American Institute of Floral Designers certification	Future Farmers of America (FFA)
<b>EDUCATION</b>	Clovis Unified School District Madera Unified School District Sanger Unified School District Clovis Community College Madera Community College Reedley College Fresno State University California Teaching Fellows Foundation Project Tomorrow Central Valley Higher Education Consortium Educational Research Consultants Solunet Treasures for Teachers KSEE 24	CBEST Exam Para-professional Certificate	Educators Rising
<b>EMERGENCY RESPONSE</b>	Clovis Fire Department COS Fire Academy FCC Fire Academy FCC Fire Academy CalFIRE Region 5	CPR / First Aid S-190 Intro to Wildland I.C.S. 100 Intro to Incident Command Haz-Mat	Skills USA
<b>PATIENT CARE</b>	Golden Living Carmel Village CRMC	CPR, First Aid, Food Handlers, OSHA 10 with HIPAA	Skills USA

<b>PUBLIC SAFETY</b>	Clovis Police Department Fresno Police Department Fresno State Police Department Selma Police Department	Adult First Aid CPR Certification	Skills USA
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**CLOVIS UNIFIED SCHOOL DISTRICT**

**CLOVIS HIGH SCHOOL**

<b>PATHWAY</b>	<b>COURSE</b>	<b>F</b>	<b>M</b>	<b>TOTAL</b>	<b>A-G or ELECTIVE CREDIT</b>	<b>TEACHER</b>
<b>EDUCATION</b>	<i>Contemporary Issues in Education (w/Eng 11 HP)</i>	20	6	26	English (B)	Leanne Lewis
	<i>*Careers with Children</i>	89	16	105	Elective	Cynthia Huerta
	<i>*Education Careers (w/Eng 11/12 p)</i>	25	2	27	English 11/12 English (B)	Andrew Blanchard
	<i>Exploration of Child and Adolescent Literature (w/Eng 10 HP)</i>	44	12	56	English (B)	Leanne Lewis
<b>RESIDENTIAL AND COMMERCIAL CONSTRUCTION</b>	<i>Construction Technology I</i>	1	59	60	Elective	Ben Orozco
	<i>Construction Technology II</i>	2	25	27	Elective	Fred Avila John Eichmann
	<i>Basic Metal Manufacturing</i>	2	50	52	Elective	Ben Orozco
	<i>Building Scaled Structures (P)</i>	4	18	22	Elective (G)	John Eichmann
	<i>Electronic Systems Technology</i>	6	23	29	Elective	John Eichmann
<b>SYSTEMS DIAGNOSTICS, SERVICE, AND REPAIR</b>	<i>Basic Automotive</i>	8	73	81	Elective	Jason Mullikin
	<i>Automotive 2 and 3</i>	2	26	28	Elective	Jason Mullikin
	<i>Engine Technology</i>	2	22	24	Elective	Jason Mullikin
<b>Total Enrollment</b>		<b>205</b>	<b>332</b>	<b>537</b>		

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## CLOVIS HIGH SCHOOL

PATHWAY	PARTNERSHIPS	CERTIFICATIONS	CTE STUDENT ORGANIZATIONS
<b>EDUCATION</b>	Clovis Unified School District Madera Unified School District Sanger Unified School District Clovis Community College Madera Community College Reedley College Fresno State University California Teaching Fellows Foundation Project Tomorrow Central Valley Higher Education Consortium Educational Research Consultants Solunet Treasures for Teachers KSEE 24	CBEST Exam Para-professional Certificate	Educators Rising
<b>RESIDENTIAL AND COMMERCIAL CONSTRUCTION</b>	Central California Electronics of Fresno Digitech Integration; Hanford Elecom West, Inc.; Fresno Sunrise Systems LVC Inc.: Fresno	OSHA Ethics in Technology Pelco Cyber Security - Texas A&M University Extension	Skills USA
<b>SYSTEMS DIAGNOSTICS, SERVICE, AND REPAIR</b>	AESwave Fresno City College Future Ford Hedrick's Chevrolet Hunter Engineering Lyon Automotive MATCO Tools NAPA Auto Parts Oriellyi Auto Rasmussen Auto Repair	Automotive Service Excellence (ASE) S/P2 Online Safety	Skills USA

**CLOVIS UNIFIED SCHOOL DISTRICT**

**CLOVIS NORTH HIGH SCHOOL**

<b>PATHWAY</b>	<b>COURSE</b>	<b>F</b>	<b>M</b>	<b>Total</b>	<b>A-G or ELECTIVE CREDIT</b>	<b>TEACHER</b>
<b>EDUCATION</b>	<i>*Careers with Children</i>	37	2	39	Elective	Nicole Torres
	<b><i>Contemporary Issues in Education (w/Eng 11 HP)</i></b>	24	3	27	English (B)	Kirsten Aguilar
	<i>*Education Careers (w/Eng 11/12 - P)</i>	16	2	18	English 11/12 English (B)	Andrea Castro
	<i>Exploration of Child and Adolescent Literature (w/Eng 10 HP)</i>	14	6	20	English (B)	Lisa Bennett
<b>PATIENT CARE</b>	<i>Medical Careers</i>	33	6	39	Elective	Lilli Goishi-Bessey
	<i>Principles of Athletic Training</i>	16	5	21	Elective	Katelyn Kahl
	<i>Rehabilitation Therapy Careers</i>	17	6	23	Elective	Katelyn Kahl
<b>SOFTWARE AND SYSTEMS DEVELOPMENT</b>	<i>AP Computer Science</i>	21	44	65	Mathematics/Computer Science (G)	Mary Allen
	<b><i>Exploring Computer Science</i></b>	28	80	108	Elective	Mary Allen
	<b><i>Principles of Engineering Robotics (P)</i></b>	2	9	11	Physical Science (G)	Tony Frates
<b>Total Enrollment</b>		<b>208</b>	<b>163</b>	<b>371</b>		

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**CLOVIS NORTH HIGH SCHOOL**

<b>PATHWAY</b>	<b>PARTNERSHIPS</b>	<b>CERTIFICATIONS</b>	<b>CTE STUDENT ORGANIZATIONS</b>
<b>EDUCATION</b>	Clovis Unified School District Madera Unified School District Sanger Unified School District Clovis Community College Madera Community College Reedley College Fresno State University California Teaching Fellows Foundation Project Tomorrow Central Valley Higher Education Consortium Educational Research Consultants Solunet Treasures for Teachers KSEE 24	CBEST Exam Para-professional Certificate	Educators Rising
<b>PATIENT CARE</b>	Clovis Community Medical Center Fresno Heart and Surgical Center Fresno Women’s Care Kubo Orthopedic Group Sierra Pacific Orthopedics (SPOC) Valley Children’s Hospital Wayne Nishio, O.D. Urgency Med Dynamic Kids PT Physiotion PT Terrio Edge PT SPOC Goodfellows OT CRMC	CPR, First Aid	Future Health Professionals (HOSA)
<b>SOFTWARE AND SYSTEMS DEVELOPMENT</b>	Sunrise Medical Servi-Tech Controls Infor Boeing Adco Manufacturing Excelsior Metals Bitwise Industries	Java SE7 Certified Programmer Certified Solid Works Association (CSWA)	Skills USA

**CLOVIS UNIFIED SCHOOL DISTRICT**

**CLOVIS WEST HIGH SCHOOL**

<b>PATHWAY</b>	<b>COURSE</b>	<b>F</b>	<b>M</b>	<b>Total</b>	<b>A-G or ELECTIVE CREDIT</b>	<b>TEACHER</b>
<b>EDUCATION</b>	<i>Contemporary Issues in Education (w/Eng 11 HP)</i>	8	6	14	English (B)	Elizabeth Fiester
	<i>Exploration of Child and Adolescent Literature</i>	20	12	32	English (B)	Jennifer Oren
	<i>*Education Careers (w/English 11 and 12)</i>	5	23	28	Elective English (B)	Katie Bonesteel
<b>FINANCIAL SERVICES</b>	<i>Business Financial Services Internship</i>	15	11	26	Elective	Joey Martinez
	<i>Computer Applications</i>	21	49	70	Elective	Monte Prieto
	<i>Financial Literacy</i>	14	7	21	Elective	Joey Martinez
	<i>Intro to Finance</i>	2	5	7	Elective	Joey Martinez
	<i>Small Business Management</i>	4	18	22	Elective	Monte Prieto
<b>SYSTEMS DIAGNOSTICS, SERVICE, AND REPAIR</b>	<i>Automotive 2 and 3</i>	23	0	23	Elective	Michael Miller
	<i>Auto Systems Technology</i>	24	0	24	Elective	Michael Miller
	<i>Basic Automotive</i>	2	61	63	Elective	Michael Miller
<b>PERFORMING ARTS</b>	<i>Drama 2 Tech Theater</i>	20	4	24	Performing Arts (F)	Sandra Hahn
	<i>Performing Arts (w/English 11/12)</i>	32	35	67	Performing Arts (F) English (B)	Elizabeth Fiester Sandra Hahn
<b>Total Enrollment</b>		<b>190</b>	<b>231</b>	<b>421</b>		

**CSU/UC Approved Courses: A-G = A-History/Social Science; B-English; C-Mathematics; D-Laboratory Science; E-Language Other Than English; F-Visual & Performing Arts; G-Elective**

*Bolded courses are new for 2017-2018.*

**\*Dual Enrollment = High school dual enrolled students may earn both high school and college credit for the same course while still in high school.**

## CLOVIS WEST HIGH SCHOOL

PATHWAY	PARTNERSHIPS	CERTIFICATIONS	CTE STUDENT ORGANIZATIONS
<b>EDUCATION</b>	Clovis Unified School District Madera Unified School District Sanger Unified School District Clovis Community College Madera Community College Reedley College Fresno State University California Teaching Fellows Foundation Project Tomorrow Central Valley Higher Education Consortium Educational Research Consultants Solunet Treasures for Teachers KSEE 24	CBEST Exam Para-professional Certificate	Educators Rising
<b>FINANCIAL SERVICES</b>	California Creative Group Educational Employees Credit Union Insight Design and Print Marble Slab Menchies Nutrishop Primetime Sports Rubbersoul Screenworks	TBD	Skills USA
<b>PERFORMING ARTS</b>	Clovis Unified MET/PAC California State University, Fresno Fresno City College Roger Rocka's Good Company Players	TBD	Skills USA
<b>SYSTEMS, DIAGNOSTICS, SERVICE, AND REPAIR</b>	Betts Truck Parts & Service Elite Auto Service Michael Automotive VW Sebring West Automotive	ASE Student Certification in 8 separate training areas A1-A8 A1.ENGINE REPAIR A2. AUTOMATIC TRANSMISSION AND TRANSAXLE A3. MANUAL DRIVE TRAIN AND AXLES A4.SUSPENSION AND STEERING A5. BRAKES A6. ELECTRICAL/ELECTRONIC SYSTEMS	Skills USA

		A7. HEATING, VENTILATION AND AIR CONDITIONING (HVAC) A8. ENGINE PERFORMANCE ASE Air Conditioning Certification	
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**CLOVIS UNIFIED SCHOOL DISTRICT**

**CENTER FOR ADVANCED RESEARCH & TECHNOLOGY**

<b>PATHWAY</b>	<b>COURSE</b>	<b>F</b>	<b>M</b>	<b>Total</b>	<b>A-G or ELECTIVE CREDIT</b>	<b>TEACHER</b>
<b>DESIGN, VISUAL, AND MEDIA ARTS</b>	<i>Advanced Studies in Media Communication and Design (P)</i>	4	9	13	Visual Arts (F)	Seth Chambers
	<i>Digital Media and Graphic Design (P)</i>	29	42	71	Visual Arts (F)	Aaron Love
	<i>Digital Video Production and Broadcasting (P)</i>	28	30	58	Visual Arts (F)	Seth Chambers
<b>ENGINEERING TECHNOLOGY</b>	<i>Robotics and Electronics (P)</i>	6	31	37	Interdisciplinary (G)	Bryan Emerson
	<i>Advanced Robotics (P)</i>	0	1	1	Interdisciplinary (G)	Bryan Emerson
<b>ENVIRONMENTAL RESOURCES</b>	<i>Environmental Research/Tech (P)</i>	78	49	127	Interdisciplinary (G)	Steve Wilson Staci Bynum
<b>BUSINESS MANAGEMENT</b>	<i>Economics of Marketing (P)</i>	47	52	99	Social Science (G)	Brett Rosander
	<i>Global Economics and Finance (P)</i>	26	43	69	Social Science (G)	Bruce Hoffman
<b>GAME DESIGN AND SIMULATION</b>	<i>Interactive Game Design</i>	10	38	48	Elective	Matthew Hodge
<b>MENTAL AND BEHAVIORAL HEALTH</b>	<i>Psychology and Human Behavior (P)</i>	99	23	122	Social Science (G)	Melissa Hutchinson
<b>NETWORKING – CYBERSECURITY</b>	<i>Cybersecurity</i>	4	41	45	Elective	Verne Farley
<b>PATIENT CARE</b>	<i>Advanced Topics in Medical Research (P)</i>	23	8	31	Life Science (G)	Lindsey Johnson
	<i>Advanced Topics in Medicine (P)</i>	79	36	115	Life Science (G)	Lauri Hayes
<b>BIOTECHNOLOGY</b>	<i>Bioengineering (P)</i>	61	43	104	Life Science (G)	Matthew Jordan
<b>FORENSIC RESEARCH</b>	<i>Forensic Research and Biotechnology (P)</i>	85	36	121	Life Science (G)	Erin Andrade

<b>PRODUCT INNOVATION AND DESIGN</b>	<i>Product Development (P)</i>	33	9	42	Elective	Bryan Emerson
<b>LEGAL PRACTICES</b>	<i>Law &amp; Order &amp; Public Policy (P)</i>	70	45	115	Social Science (G)	Kristen Deffenbacher
<b>SOFTWARE AND SYSTEMS DEVELOPMENT</b>	<i>Applications Programing</i>	5	46	51	Elective	Jerry England
<b>Total Enrollment</b>		<b>687</b>	<b>582</b>	<b>1269</b>		

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**CENTER FOR ADVANCED RESEARCH AND TECHNOLOGY (CART)**

<b>PATHWAY</b>	<b>PARTNERSHIPS</b>	<b>CERTIFICATIONS</b>	<b>CTE STUDENT ORGANIZATIONS</b>
<b>DESIGN, VISUAL, AND MEDIA ARTS</b>	CMAC Public Local Access Channel Millers Landing (Bass Lake) Sassy Affair Whispering Waters Methods Skateboards Plethora CUSD Campus Catering	Adobe	TBD
<b>ENGINEERING TECHNOLOGY</b>	Blue Dolphin Engineering Betts Company Grundfos Pumps Schneider Electric (PELCO) Excelsior America Iscar USA Project321 ProForm 3D 84 Lumber SolidWorks (Dassault Systems)	SolidWorks CAD MatLab Industry Specific Safety AutoDesk	TBD
<b>ENVIRONMENTAL RESOURCES</b>	City of Fresno - Water Division USDA US Forest Service Southern CA Edison PG & E Aquarius Aquarium Institute J and J Fish AquaFarms Grundfos Pumps Berkeley/Stanford Children's Health and Air Pollution Program	TBD	TBD
<b>BUSINESS MANAGEMENT</b>	Leadership Fresno Clovis Kiwanis Adtech Crime stoppers Clovis Book barn One Putt Media Wet Seal Habitat for Humanity Ronald McDonald House Saint Agnes Foundation City Press Allergy One American Ambulance American Red Cross Ampersand Ice Cream Animal Rescue of Fresno Bill Smilie Aviation Center Blackwood Enterprises BOOT Brainchild Business Street Media Group	Microsoft Office	TBD

	<p> Career Pillar  Cavelle Kids  CCHCC  CCSPCA  Central Valley Community Bank  Central Valley SPCA  Certification Partners  City of Clovis  Comfort Suites  Community Food Bank  Concierge Wealth Mgmt.  Contagus  Cruise Adventures  CUSD Campus Club  Devry University  Downtown Fresno Partnership  EcoWater Systems  Elizabeth Arden  EmbroidMe  Feel Like a Woman  Fresno County Sheriffs  Foundation  Fresno Metropolitan Flood  Control District  Fresno Opportunities  Commission  Fresno State Office of  Community &amp; Economic  Development (OCED)  Green Fin Realty  Grewan Farms  Hampton Inn / Homewood  Suites  Heberger &amp; Company  Helpfulist  Instinct Dog Training  Island Waterpark  ITT  KFSN-TV  Kona Ice  KSEE 24  Kuppa Joy  League of Mexican American  Women  Lyons Magnus  National Multiple Sclerosis  Society  NorthStar Alarm Services  Perfect Vacation  Principal Financial Group  Qualls Insurance  Reagan Elementary School  Red Cross  Rehab Superstore  ReStore  Serestar Communications /  Telemundo 51 Fresno  Starbucks </p>		
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	<p>The Foundry Collective  United Way Fresno and Madera Counties  Valley Building Supply  Woodward Park Optometric Group  United States Marine Corp  Business Journal  Central Valley Talk  SPCA  Geil Industries  Union Bank  American Ambulance  Clovis Chamber of Commerce</p>		
<b>GAME DESIGN AND SIMULATION</b>	<p><b>Michael Prieto</b> - Virtual Branders (company that provides AR solutions using the Unity Game Engine)</p> <p><b>Rudy Contreras</b> - Rude Graphix (digital illustrator)</p> <p><b>Jennifer Ward</b> - (owner of Crazy Squirrel gamestore/coordinates local game conventions)</p> <p><b>Cale Livingston</b> - (multimedia artists for DeYoung Properties. 3D modeling/rendering to DeYoung's multimedia team.)</p> <p><b>Matthew Hodge</b> (freelance digital artist, provide concept art opportunities in class, and working to develop potential internship opportunities for 3D artists)</p>	<p>3-D Max  Unity  Maya (AutoDesk)</p>	
<b>MENTAL AND BEHAVIORAL HEALTH</b>	<p>CSUF  FUSD, CUSD Psychology Depts.</p>	TBD	TBD
<b>NETWORKING</b>	<p>Cisco  Oracle  CUSD Technology Center</p>	<p>Cisco Networking 1, 2, 3, 4  CIW</p>	TBD
<b>PATIENT CARE</b>	<p>Valley Children's Hospital  Community Regional Medical Center  Kaiser Permanente</p>	<p>CPR  CERT</p>	TBD
<b>PRODUCT INNOVATION AND DESIGN</b>	<p>Blue Dolphin Engineering  Betts Company  Grundfos Pumps</p>	<p>SolidWorks  CAD  MatLab</p>	TBD

	Schneider Electric Excelsior America Iscar USA Project321 ProForm 3D 84 Lumber SolidWorks	Industry Specific Safety AutoDesk	
<b>LEGAL PRACTICES</b>	Walter Wilhelm Baur Attorneys McCormick Barstow Attorneys Geil Industries John Minkler- Civic Education Consultant Clovis Memorial District	TBD	TBD
<b>SOFTWARE AND SYSTEMS DEVELOPMENT</b>	Oracle Systems	Oracle CIW	TBD