

# Top 5 Reasons to Enroll in TUSD CTE/ JTED Programs



# Reason 1

CTE equips students with the necessary skills and real-world experiences to seamlessly transition into postsecondary education, the military, or work.

# Evidence:

- A high school class can be articulated or dual-enrolled with Pima Community College.
- Students are afforded work-based learning opportunities.
- School-Based Enterprises (see Tucson Federal Credit Union-Eagle Branch video)
- Job Shadows

# Reason 2

- CTE helps students connect academic coursework with their future careers which allows for improvement in academic performance and furthers career development.

# Evidence:

- Students enrolled in CTE programs perform significantly higher on AIMS and other academic assessments (ADE snapshot document)
- Students enrolled in CTE programs have higher attendance rates
- Students enrolled in CTE programs have lower dropout rates



# CTE Students Perform Better on AIMS

5138 High School Students Take 2007 AIMS Reading* (Unduplicated)	56.77% meet or exceed the standard
<b>1559 CTE Concentrators Who Left Secondary Education in 2007 took AIMS Reading (Unduplicated)</b>	<b>95% meet or exceed the standard</b>
5405 High School Students Take 2007 AIMS Writing* (Unduplicated)	63.18% meet or exceed the standard
<b>1559 CTE Concentrators Who Left Secondary Education in 2007 took AIMS Writing (Unduplicated)</b>	<b>96.15% meet or exceed the standard</b>
5329 High School Students Take 2007 AIMS Math* (Unduplicated)	44.4% meet or exceed the standard
<b>1559 CTE Concentrators Who Left Secondary Education in 2007 took AIMS Math (Unduplicated)</b>	<b>91.53% meet or exceed the standard</b>

CTE Students comprise 65.97% of 9-12 high school enrollment.

49.65% of CTE total enrollment take Career Preparation courses.

30.01% of CTE Career Preparation students take a concentration of 2 credits.

92.23% of students with a concentration of 2 credits complete a CTE program.

72.27% of the 1554 FY 2006 CTE program completers are placed in postsecondary school, a job, or the military.

CTE Leaver codes: W3 = Expelled W4 = Absence W5 = Dropout W7 = Graduated

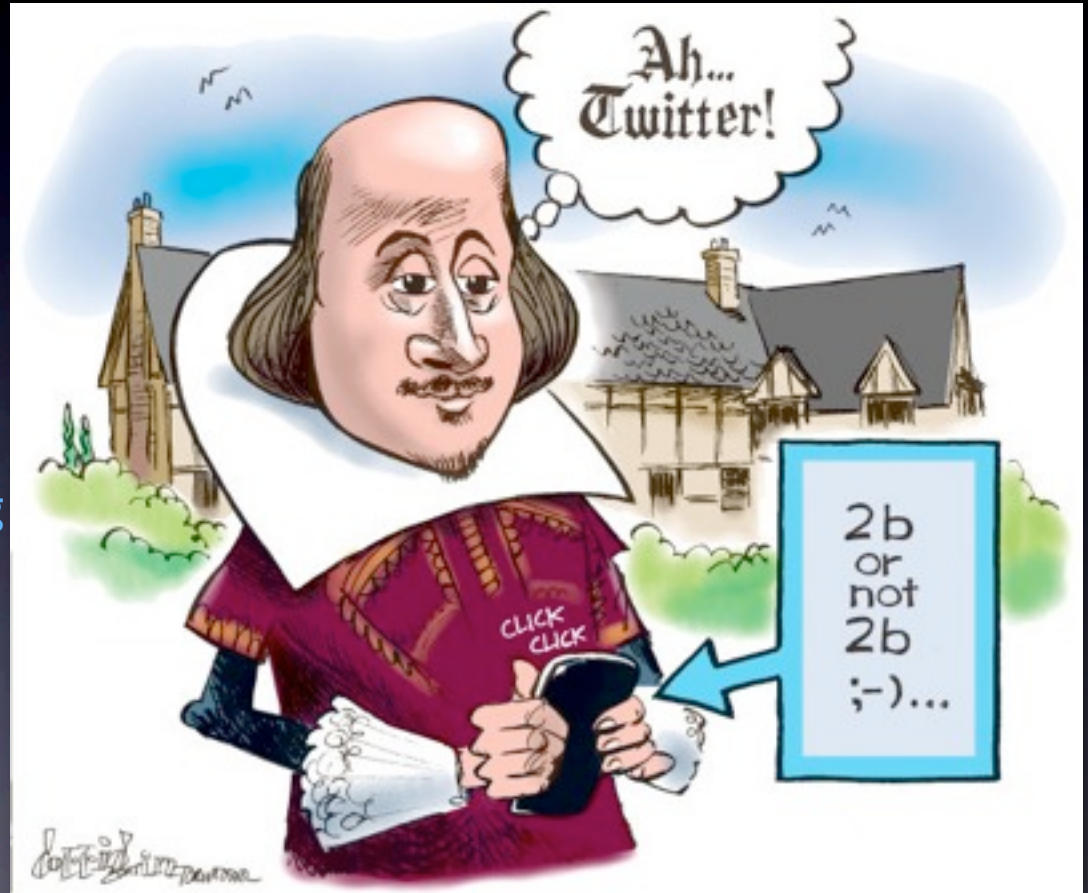
Program Concentrator: A student who completes two Carnegie units of a single CTE program. One Carnegie unit must be in Level III Career Preparation.

2006-2007 Secondary Guidelines for Performance Measures and Program Evaluation 9-27-06: see The Guidelines at <http://www.ade.az.gov/cte/DIG/>

\* See: <http://www.ade.state.az.us/ResearchPolicy/AIMSResults/>

# Reason 3

- CTE organizes both academics and career education into a practical program for workforce preparation, elevating the level of rigorous, challenging and applicable coursework leading to better and more informed preparation.

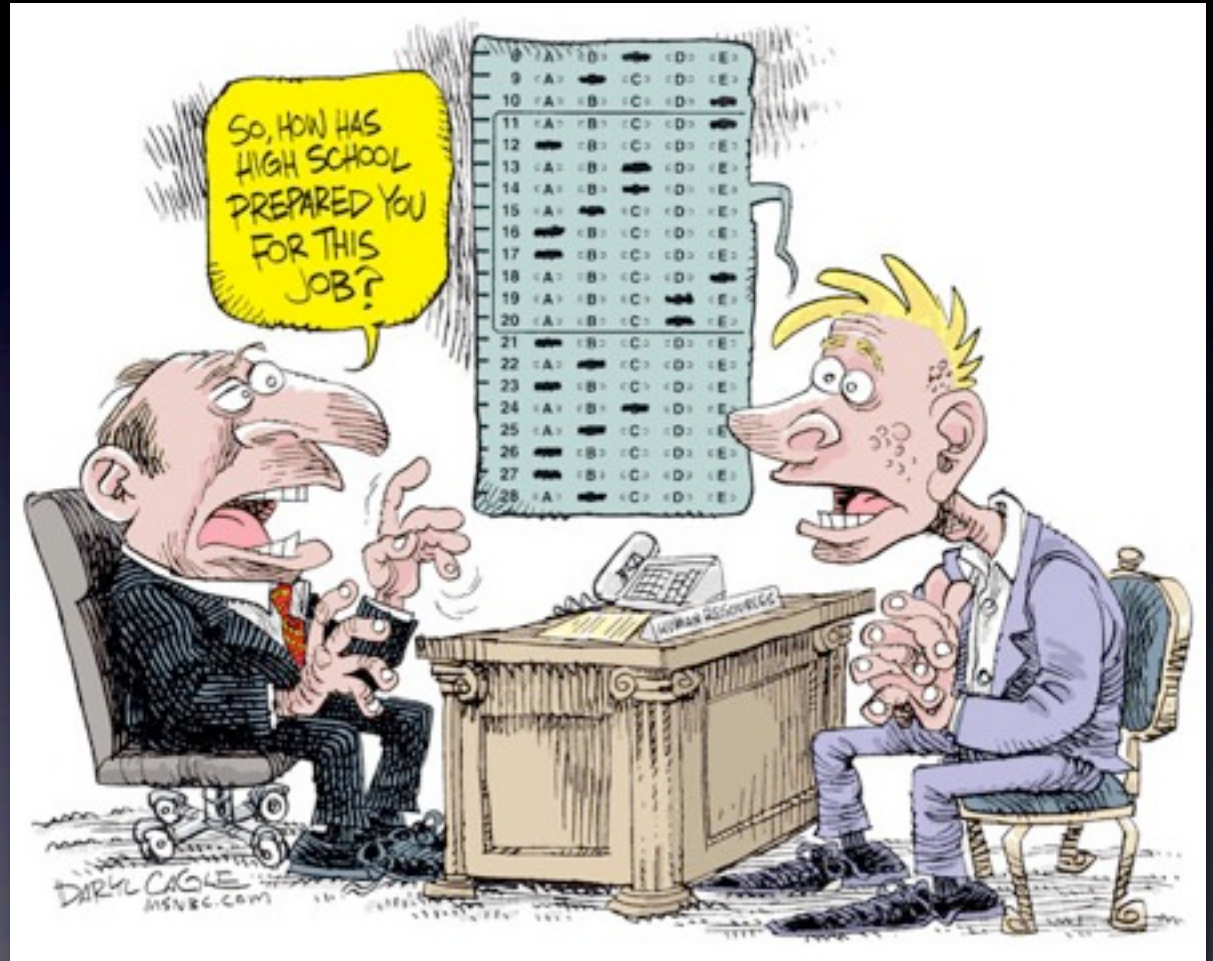


# Evidence:

- Program assessments leading to Certificates of Proficiency
- CTSO student organizations that foster leadership and employability skills
- Work based Learning: Real world experience (see video on student internships)

# Reason 4

- CTE promotes a wide variety of postsecondary options to help students choose and recognize the path that will provide the most successful level and type of training for their future career goals.



# Evidence:

- Tech Prep: Articulated and Dual Credit
- Students in CTE programs are more likely to go on to college in higher numbers
- Career Pathways (Creates a vision for the student for where they want to go and how are they going to get there)

**Tucson Unified School District - Career and Technical Education  
CAREER PATHWAY**



School Name:

Health Science: **Bio-medical (41.0100) College Entry**

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

*This Career Pathway plan (along with other career planning materials) will serve to direct learners on an fire science (college-entry) career path. Courses listed within this plan are prescribed with regard to required graduation, licenses, and certifications. Student organization Skills USA may also be included as well as summer school*

ED UC EV AT:LS ON	GRADE	English	Math	Science	Social Studies/ Sciences	Other Required Courses, Other Electives, Recommended Electives, Learner Activities	*Career & Technical Courses and/or Degree Major Courses	Occupations Relating to this Pathway
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*Interest Inventory Administered and Plan of Study Initiated for all Learners*

CONDOR	9	English 1-2	Algebra 1-2 or Geometry	Biology	World History/ Geography	Physical Education;		<b>Occupations Requiring Less than Baccalaureate Degree</b> ► Environmental Science & Protection ► Technicians, including Health Biological Technicians ► Medical & Clinical Lab Techs ► Lab Assistant Genetics ► ► <b>Occupations Requiring Baccalaureate Degree</b> ► Agricultural & Food Scientists ► Bioinformatics Scientist ► Geneticist ► Biostatistician ► Biomedical Chemist ► Research Assistant ► Research Scientist  <b>Occupations Requiring Masters Degree</b> ► Environmental Scientists & Specialists	
	10	English 3-4	Geometry or Int. Algebra	Human Biology	Elective	.5 Health Education .5 Elective			
	11	English 5-6	Inter Algebra or Pre-Calculus	Chemistry	American History	1st Year World Language	Bio-medical 1,2 **see site for specifics		
	<i>College Placement Assessments-Academic/Career Advisement Provided</i>								
	12	English 7-8	Pre-Calculus / Calculus	Physics	American Government	2nd Year World Language	Bio-medical 3,4 and/or BioGenSci Internship 1,2		

CERTIFICATION	Upon completion of <b>Biomedical Health Technologies</b> students will take the certification written test and hands-on skill test to verify successful industry standard skills. <b>Pima Community College offers a certificate in Biotechnology.</b>							
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*Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.*

SECONDARY	Year 13					All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this pathway.	<b>ARTICULATED COURSES*</b>	► Environmental Scientists & Specialists
	Year 14		Check requirements for 2-year and 4-year degrees					
	Year 15		Continue courses in the area of specialization					
	Year 16							

# TUSD CTE/PCJTED Satellite Career Preparation Programs for 2009-2010

## PROPOSED HIGH SCHOOL PROGRAM OFFERINGS Grades 9-12 (Student Enrollment Subject to Course Availability & Space Available)

## POST- SECONDARY

### ACCOUNTING

Pueblo Tucson

### AIR TRANSPORTATION

Catalina

### AGRICULTURAL BUSINESS MGMT - AGRISCIENCE

Catalina (Plant Sys) Sabino (Animal Sys) Santa Rita (Ag Bus Sys)

### AUDIOVISUAL TECHNOLOGY

Electronic Journalism – Tucson

Interactive Digital Media – Rincon, Sabino

Radio/Audio - Pueblo

### BIO SCIENCE

Bio-medical – Palo Verde, Pueblo

Bio-environmental – Rincon

Bio-innovations -Tucson

### BUSINESS MANAGEMENT & ADMINISTRATIVE SERVICES (BMAS)

(Entrepreneurship, Cooperative Business Experience (CBE),

Publications for Business, Technology Applications for Business)

Aztec Palo Verde Rincon Santa Rita

Catalina Project MORE Sabino TAPP

Cholla Pueblo Sahuaro Tucson

Howenstine

### COMPUTER MAINTENANCE (Information Technology)

Palo Verde Pueblo Rincon Sahuaro Tucson

### COMPUTER NETWORKING - CISCO (Information Technology)

Palo Verde Rincon Sahuaro Tucson

### CONSTRUCTION TECHNOLOGY

Catalina Howenstine Project More Sabino Santa Rita

Cholla Palo Verde Pueblo Sahuaro

### CULINARY ARTS

Catalina Sahuaro Santa Rita

### DESIGN AND MERCHANDISING

Rincon

### DIAGNOSTIC & INTERVENTION TECHNOLOGY –

EMERGENCY MEDICAL PARAMEDICS

Catalina

### DRAFTING & DESIGN TECHNOLOGY - Architectural Opt A

Cholla Sabino Santa Rita Tucson Palo Verde (also

Mechanical Opt C)

### EARLY CHILDHOOD EDUCATION

Cholla Palo Verde Pueblo Sahuaro TAPP

### EDUCATION PROFESSIONS

Pueblo

### ELECTRONIC TECHNOLOGY

Pueblo

### ENGINEERING SCIENCES

Cholla Palo Verde Rincon Sabino Tucson

### FINANCIAL SERVICES

Cholla Pueblo Tucson

### FIRE SCIENCE

Catalina Pueblo

### GRAPHIC ARTS (Graphic Communications)

Pueblo

### GRAPHIC DESIGN (Graphic Communications)

Cholla Tucson Artworks Academy

### HEATING/AIR CONDITIONING MAINTENANCE

Catalina

### HOSPITALITY MANAGEMENT

Cholla

### LAW, PUBLIC SAFETY & SECURITY

Cholla

### MARKETING, MGMT & ENTREPRENEURSHIP – Professional Sales

Cholla Palo Verde Pueblo Santa Rita Tucson

### MARKETING, MGMT & ENTREPRENEURSHIP - Entertainment

Rincon

### MENTAL & SOCIAL HEALTH SERVICES

Cholla, Howenstine

### NURSING SERVICES (Health Care Tech/Patient Care Tech)

Catalina Also offered at central site for all high schools

### PRECISION MANUFACTURING – METALS MFG

Palo Verde Tucson

### PHOTO IMAGING (Graphic Communications)

Pueblo Sahuaro Tucson

### SOFTWARE DEVELOPMENT (Information Tech)

University

### SPORTS MEDICINE (Allied Health Serv)

Palo Verde Rincon Sahuaro Cholla

Pueblo Sabino Tucson

### STAGECRAFT/STAGE MANAGEMENT (Performing Arts)

Cholla Pueblo Tucson

### TRANSPORTATION TECHNOLOGIES - AIRCRAFT MECHANICS

Catalina

### TRANSPORTATION TECHNOLOGIES – AUTO COLLISION REPAIR

Tucson

### TRANSPORTATION TECHNOLOGIES – AUTOMOTIVE

TECHNOLOGY

Cholla Pueblo Sahuaro Tucson

Palo Verde Rincon Santa Rita

### WELDING TECHNOLOGY

Cholla Santa Rita Tucson

### WEB PAGE DEVELOPMENT (Information Tech)

Cholla Palo Verde Pueblo Sabino Sahuaro Santa Rita

University

Red denotes new program or site offerings.



*Ensuring a dynamic workforce by fully developing every student's career and academic potential!*

**ARTICULATED PROGRAMS WITH PIMA COMMUNITY COLLEGE** (Students may receive articulated or dual college credit)

- ACCOUNTING
- AIRCRAFT MECHANICS
- AUDIOVISUAL TECHNOLOGY
- AUTOMOTIVE TECHNOLOGY
- BUSINESS MGMT & ADMIN SERV – (Entrepreneurship, Publications for Bus, Technology Apps for Bus)
- COMPUTER MAINTENANCE
- COMPUTER NETWORKING – CISCO
- CONSTRUCTION TECHNOLOGIES
- CULINARY ARTS
- DRAFTING/DESIGN TECHNOLOGY
- EARLY CHILDHOOD EDUCATION
- FINANCIAL SERVICES
- GRAPHIC ARTS
- HOSPITALITY MANAGEMENT
- METALS MANUFACTURING
- MARKETING
- NURSING SERVICES
- SOFTWARE DEVELOPMENT
- WEB PAGE DEVELOPMENT
- WELDING TECHNOLOGY

### PCJTED Central Programs

Available for all high schools

- CONSTRUCTION TECH
- COSMETOLOGY
- ELECTRICAL & POWER TRANS TECH, INDUSTRIAL ELECT
- FIRE SCIENCE
- INFORMATION TECH, WEB PAGE
- LAW & PUBLIC SAFETY
- NURSING SERVICES
- TRANSPORTATION TECHNOLOGIES, AIRCRAFT MECHANICS

# Reason 5

- CTE is dynamic, flexible and responsive to the ever-changing advances in technology, education, the workforce and the economy incorporating innovative methods, ideas, and resources to keep CTE relevant and current.

# Evidence:

- Strong and Relevant partnerships with business and industry (see video showing biotech partners)
- State-of-the-art equipment ( see KOLD news video)



CTE Website:

<http://instech.tusd.k12.az.us/career/index.html>

For more information, please contact our  
CTE department at (520) 225-4652