

# Supplemental Materials for Peoria Unified School District’s Fire Science Program of Study



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## Appendix A: Letters of Recommendation from Educational Partners

# GLENDALE COMMUNITY COLLEGE

*A Maricopa Community College*

December 1, 2016

Dear Committee

It is my pleasure to write a letter in support of the Peoria Unified School District (PUSD) Career and Technical Education (CTE) program in Fire Science being submitted to NASDCTEc for the Excellence in Action Award.

As early as 2004, Glendale Community College (GCC) has partnered with PUSD by offering college credit in the form of dual enrollment with PUSD's CTE high school Fire Science Program courses. Students are eligible to earn up to 9 college credits that may be applied to an associate's and/or certificate within the field.

Over the course of the past 3 years, there have been 58 students who earned college credit through dual enrollment for Fire Science and of the 58 students all attended GCC after high school. Of the 58 students, 15 have earned a certificate in EMT and one has earned an Associate's in EMT.

Creating pathways like this has reduced the amount of time a student is in college and prepares the student for career success. In conclusion, I fully support the efforts of PUSD in creating pathways to post-secondary as this benefits the students, the community and businesses at large.

Sincerely,



Micheile Ujke  
Dual Enrollment Coordinator  
Glendale Community College



Your Department Name Here • 6000 W. Olive Avenue • Glendale, AZ 85302  
Phone 623.845.3000 • Fax 623.845.3223 • [www.gccaz.edu](http://www.gccaz.edu)



## GLENDALE COMMUNITY COLLEGE

To: National Association of State Directors of Career Technical Education Consortium  
From: Raul Muniz, Fire Science Occupational Program Director  
Subj: Letter of Support  
Date: November 1, 2017

**To Whom It May Concern:**

The Fire Science Program at Glendale Community College (GCC) fully supports Peoria Unified School District's (PUSD) Career and Technical Education "Excellence in Action" application.

As a partner in the PUSD, GCC residential faculty have an opportunity to "research; dialogue and brainstorm" developmentally appropriate practices and effective pedagogy in Fire Science with high school instructors through Dual Enrollment (DE) college coursework to strengthen student skills. High school students are introduced to the importance and foundational significance of quality fire science programs and highly qualified fire science professionals.

**Through this partnership:**

- GCC faculty and PUSD high school instructors have developed positive communication and personal relations with student success as the primary goal
- GCC shares college instructional methodologies; resources and activities with high school instructors for all Dual Enrollment Fire Science programs
- PUSD has improved and refined syllabi for each Dual Enrollment college course
- GCC provides on-site high school instructor evaluations and feedback each semester as a tool for professional growth and development
- GCC invites high school instructors to the Fire Science Advisory Council meetings
- GCC's Fire Science Program Director is available as a resource to all PUSD high school instructors for consultation and/or recommendations to improve instruction with Lectures and Skills Lab.
- GCC has updated PUSD on recent changes made by the National Firefighting Certification Bodies.

It is evident that all participants benefit from this partnership to improve our community's workforce and safety:

- College faculty are able to disseminate current research, resources and pedagogy to high school instructors;
- High school instructors strengthen instructional practices and improve assessment of student knowledge and skills;
- High school students gain college level knowledge through classroom and lab assignments that strengthen critical thinking and improve firefighting field practicum skills;
- High School students perform community service projects that benefit both the community and students.

In addition this partnership also assists student by preparing them for:

- Entrance into GCC's Fire Academy by participating in training such as the Candidate Physical Ability Test preparation course, a requirement for fire academy and job candidate testing
- Participation in Northern Arizona University's 90/30 program where students may complete up to 90 credits at the community college towards their Bachelor's Degree.

Respectfully,

Raul Muniz, Esq.

Fire Science Program Director/Faculty

Glendale Community College 6000 W. Olive Ave.

Glendale, AZ 85306 Email: [raul.muniz@gccaz.edu](mailto:raul.muniz@gccaz.edu)

## Appendix B: Letters of Recommendation from Business Partners/Employers

### *Glendale Regional Public Safety Training Center*

*11550 W. Glendale Ave.  
Glendale, Arizona 85307  
623-772-7700*

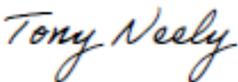
October 27, 2017

Over the past two years, I have had the privilege and honor of being the Lead Recruit Training Officer at the Glendale Regional Public Safety Training Center representing the Peoria Fire Medical Department. During this assignment, I have had many recruit firefighters that have completed the Fire Science Program thru the Peoria Unified School District. These young men and women come in prepared both physically and mentally while possessing the necessary skills to become a professional firefighter.

The skills they are exposed to while in the Fire Science Program mirror our standards at the academy have prepared them for become certified Firefighter I and II thru the State of Arizona Fire Marshal's Office.

The Peoria Unified School District Fire Science Program is a huge asset in preparing our future firefighters and lays the groundwork for a successful career in the Fire Service. As the need for firefighters is growing in the Phoenix metropolitan area a program like this produces a strong applicant pool in which we can select from.

Respectfully,



Captain Tony Neely  
Lead Recruit Training Officer  
Peoria Fire Medical Department  
[Tony.neely@peoriaaz.gov](mailto:Tony.neely@peoriaaz.gov)  
623-221-1151



## City of Peoria Fire Medical Department

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8401 West Monroe Street, Peoria, Arizona 85345  
Phone: 623-773-7279 Fax: 623-773-7295

November 14, 2016

The Peoria Fire Medical Department has a long standing relationship with the Peoria Unified School District Fire Science Program. Over the years we have provided them with on-duty fire crews to assist in teaching, the use of apparatus for competitions and hands on learning opportunities. In kind donations to the program are numerous including; Pierce Fire Truck, Self Contained Breathing Apparatus (SCBA), Personnel Protective Gear, Fire Hose and appliances.

Students from the program are provided internship opportunities with our department and are active in our community outreach programs. Many of them have gone on to gain a career with us.

I have personally seen the benefits of the program as I have had the opportunity to provide instruction to the program. The program is a huge benefit in preparing our next generation of firefighters. We are proud to be able to assist with the program.

If you have any questions or need further information please do not hesitate to contact me.

Respectfully,

*Gary Bernard*

Deputy Chief Gary Bernard  
Peoria Fire Medical Department  
[Gary.bernard@peoriaaz.gov](mailto:Gary.bernard@peoriaaz.gov)  
602-354-6420

## Appendix C: Stackable Credentials

Students can stack the following Industry Credentials within the Fire Science Program:

- Bloodborne Pathogens
- First Aid
- CPR
- National Incident Management Courses – NIMS 100, 200 and 700; and
- Wildland Firefighter



HUMAN SERVICES & RESOURCES

**FIRE SCIENCE**

STACKABLE CREDENTIAL



**STACKABLE CREDENTIALS**

A series of industry certifications and education earned through career focused programs of study during and after high school

Students can earn 3 dual enrollment credits toward Certificate of Completion in Fire Science, then adding in other dual enrollment opportunities, student could earn 17 credits toward Associate of Science in Emergency Response and Operations with emphasis in Fire Science.



## HUMAN SERVICES & RESOURCES

# FIRE SCIENCE

### STACKABLE CREDENTIAL



High school students may graduate with industry certifications and/or dual enrollment credit toward a college certificate and/or degree through a program of study at [azprogramsofstudy.org](http://azprogramsofstudy.org).

HIGH SCHOOL

Dual Enrollment

CERTIFICATION HS

• **ASHI CPR & Basic First Aid** (earned in HS)

CERTIFICATION HS

• **S130/S190 Wildland Firefighter Training**  
(earned in HS)

CERTIFICATION HS

**CPAT Certification** (Candidate Physical Ability Test)

CERTIFICATION

**NIMS 100, 200 and 700**  
National Incident Management System

CERTIFICATION

**ASHI Blood Borne Pathogen Awareness**

UNDERGRAD

**Associate of Applied Science in Fire Science**

UNDERGRAD

**Fire Department Academy**

CERTIFICATION

**National Fire Protection Association Certification**

UNDERGRAD

**Bachelor of Science in Fire Science**



### STACKABLE CREDENTIAL

A series of industry certifications and education earned through career focused programs of study during and after high school.

# Appendix D: Certificate and AAS in Fire Science



## ARIZONA CAREER AND TECHNICAL EDUCATION PROGRAM OF STUDY

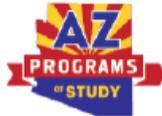
AZProgramsofStudy.org

<b>DISTRICT</b>	Peoria Unified	<b>SCHOOL YEAR</b>	2016
<b>HIGH SCHOOL(S)</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kells High School, Sunrise Mountain High School	<b>POST SECONDARY SCHOOL</b>	Glendale Community College
<b>DUAL ENROLLMENT SCHOOL(S):</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kells High School, Sunrise Mountain High School,		
<b>SECONDARY CTE PROGRAM</b>	Fire Service	<b>POST SECONDARY PROGRAM</b>	Fire Science
<b>PRECEDING POST SECONDARY PROGRAM</b>		<b>FOLLOWING POST SECONDARY PROGRAM</b>	Fire Science

**GCC CCL Fire Science (5486)**

Grade	CTE Secondary courses and Postsecondary major courses and CTSOs	English	Math	Science	Social Studies	Other Required Courses and/or elective
<b>Secondary</b>	<b>CTSO(s): SkillsUSA</b>					
	9	English I	Algebra I	Agriculture Science I - OR Integrated Science		AFJROTC I: Aerospace I - OR Band/Marching OR Personal Fitness
	<b>Administer AzMerit 10th Grade</b>					
	10	Medical Science	English II	Geometry	Agriculture Science II - OR Biology	World History
<b>College course placement assessments administered, academic/career advising, additional preparation strategies identified and implemented</b>						
11	Intro to Fire Protection	English III	Algebra II	Chemistry - OR 3rd Year Science	AZ/US History	World Language II
12	<b>CTE Internship-Fire Science</b>					
	CTE Internship-Fire Science	English IV	4th Year Math		AZ/American Government - AND American Economics	
	Introduction to Fire Suppression - FSC113 (3.00);					

<b>Administer Arizona's CTE Technical Skills Assessment</b>						
<b>Post-Secondary</b>	FSC105 Hazardous Materials/First Responder (3.00)					
	FSC106 Fundamentals of Fire Prevention (3.00)					
	<b>FSC113 Introduction to Fire Suppression (3.00)</b>					
	FSC117 Fire Apparatus (3.00)					
	FSC208 Firefighter Safety and Building Construction (3.00)					
	FSC119 Introduction Fire Service Ethics (3.00)					
	FSC215 Customer Service in the Public Sector (3.00)					
	AJS147 Emergency Preparedness (3.00)					
	OR DPR147 Emergency Preparedness (3.00)					
	OR FSC147 Emergency Preparedness (3.00)					
	OR AJS148 Fundamentals of Emergency Management (3.00)					
	OR DPR148 Fundamentals of Emergency Management (3.00)					
	OR FSC148 Fundamentals of Emergency Management (3.00)					
<b>Highlighted courses indicate possible dual enrollment opportunities</b>						
Programs of Study are being developed at different rates within each school district and are subject to change. Therefore, course availability may not be guaranteed. Contact your counselor for details						



ARIZONA CAREER AND TECHNICAL EDUCATION PROGRAM OF STUDY

AZProgramsofStudy.org

<b>DISTRICT</b>	Peoria Unified	<b>SCHOOL YEAR</b>	2016
<b>HIGH SCHOOL(S)</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kellis High School, Sunrise Mountain High School	<b>POST SECONDARY SCHOOL</b>	Glendale Community College
<b>DUAL ENROLLMENT SCHOOL(S):</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kellis High School, Sunrise Mountain High School		
<b>SECONDARY CTE PROGRAM</b>	Fire Service	<b>POST SECONDARY PROGRAM</b>	Emergency Response and Operations (Fire Tracks)
<b>PRECEDING POST SECONDARY PROGRAM</b>	Fire Science	<b>FOLLOWING POST SECONDARY PROGRAM</b>	

GCC AA8 Emergency Response and Operations (Fire Tracks) (3112)

Grade	CTE Secondary courses and Postsecondary major courses and CTSOs	English	Math	Science	Social Studies	Other Required Courses and/or elective
Secondary	<b>CTS0(e): SkillsUSA</b>					
	9	English I	Algebra I	Agriculture Science I - OR Integrated Science		AFJROTC I: Aerospace I - OR Band/Marching OR Personal Fitness
	<b>Administer AzMarit 10th Grade</b>					
	10	English II	Geometry	Agriculture Science II - OR AP Biology H - AGS164 (4.00);	World History	World Language I
<b>College course placement assessments administered, academic/career advising, additional preparation strategies identified and implemented</b>						
11	Intro to Fire Protection - FSC106 (3.00);	English III	Algebra II	AP Chemistry H - CHM151 (3.00); CHM151LL (1.00); Human Physiology - BIO160 (4.00);	AZ/US History	World Language II
12	Introduction to Fire Suppression - FSC113 (3.00);	English IV - OR AP Composition & Literature H OR College Prep English H - ENG101 (3.00);	College Algebra H - OR College Mathematics - MAT151 (4.00);	Physics - OR AP Physics I H - PHY101 (4.00);	AZ/American Government - AND American Economics	

<b>Administer Arizona's CTE Technical Skills Assessment</b>						
Post-Secondary	Students must select one (1) of the following five (5) tracks: <b>TRACK I: FIRE OPERATIONS</b> 18-27.5 credits (0.00)	AAS General Education English/First Year Composition: 6 credits required* 2015-16 (0.00)	Any approved general education course from the Mathematics area: 3 credits* 2015-16 (0.00)	Track II: Paramedicine (0.00)	Any approved education course from the Social And Behavioral Sciences area: 3 credits* 2015-16: AJS/EMT/FSC/SWU258 Victimology and Crisis Management recommended for Track II students. (0.00)	Any approved general education course from the Oral Communication area: 3 credits* 2015-16. COM230 Small Group Communication recommended for Track II students (0.00)
	EMT/FSC104 Emergency Medical Technology (9.00)	ENG101 First Year Composition (3.00)	MAT140 College Mathematics (5.00)	BIO160 Introduction to Human Anatomy & Physiology (4.00)	COM100 Introduction to Human Communication (3.00)	COM100 Introduction to Human Communication (3.00)
	AND EMT/FSC104AB Applied Practical Studies for Emergency Medical Technology (0.50)	OR ENG107 First-Year Composition for ESL (3.00)	MAT141 College Mathematics (4.00)	Tracks I, III, IV: Any approved general education course from the Natural Sciences area: 4 credits (0.00)	ECH176 Child Development (3.00)	OR COM100AA Introduction to Human Communication Part I (1.00)
	OR Arizona State EMT Certification (0.00)	AND ENG102 First-Year Composition (3.00)	MAT142 College Mathematics (3.00)	Any approved general education course from the Natural Sciences area: 4 credits* 2015-16 (0.00)	EDU221 Introduction to Education (3.00)	AND COM100AB Introduction to Human Communication Part II (1.00)
	OR Arizona State Paramedic Certification (0.00)	OR ENG108 First-Year Composition for ESL (3.00)	MAT150 College Algebra/Functions (5.00)	AGS164 Plant Growth and Development (4.00)	EED205 The Developing Child: Prenatal to Age Eight (3.00)	AND COM100AC Introduction to Human Communication Part III (1.00)
	OR Permission of Program Director (0.00)	OR ENG111 Technical/Professional Writing (3.00)	MAT151 College Algebra/Functions (4.00)	AST101 Survey of Astronomy (3.00)	GCU102 Intro to Human Geography (3.00)	COM110 Interpersonal Communication (3.00)
	FSC102 Fire Department Operations (11.00)		MAT152 College Algebra/Functions (3.00)	AST102 Survey of Astronomy Laboratory (1.00)	HES100 Health Science (3.00)	OR COM110AA Interpersonl Comm Pt I (1.00)
	FSC130 Fitness for Firefighters/CPAT (1.00)		MAT172 Finite Mathematics (3.00)	AST111 Intro Solar System Astronomy (3.00)	HIS101 History of Western Civilization Middle Ages to 1789 (3.00)	AND COM110AB Interpersonl Comm Pt II (1.00)
	FSC134 Fitness & Conditioning for Firefighters (3.00)		MAT182 Plane Trigonometry (3.00)	AST112 Intro Stars Galaxies Cosmology (3.00)	HIS102 History of Western Civilization 1789 to Present (3.00)	AND COM110AC Interpersonl Comm Pt III (1.00)
	TRACK IV: FIRE SCIENCE 24 credits (0.00)		MAT187 Precalculus (5.00)	AST113 Intro Solar Syst Astronomy Lab (1.00)	HIS103 United States History to 1865 (3.00)	OR COM225 Public Speaking (3.00)
	AJS/DPR/FSC147 Emergency Preparedness (3.00)		MAT206 Elements of Statistics (3.00)	BIO100 Biology Concepts (4.00)	HIS104 United States History 1865 to Present (3.00)	OR COM230 Small Group Communication (3.00)
	OR AJS/DPR/FSC148 Fundamentals of Emergency Management (3.00)		MAT212 Brief Calculus (3.00)	BIO101 Introduction to Human Genetics for Non-Majors (4.00)	HIS110 World History to 1500 (3.00)	Any approved general education course from the Humanities and Fine Arts area: 3 credits* 2015-16 (0.00)
	FSC105 Hazardous Materials/First Responder (3.00)		MAT213 Brief Calculus (4.00)	BIO105 Environmental Biology (4.00)	HIS204 African-America Hist 1865-Pres (3.00)	ARH101 Prehistoric Through Gothic Art (3.00)
	FSC117 Fire Apparatus (3.00)		MAT220 AP Calculus (5.00)	BIO107 Introduction to Biotechnology (4.00)	POS101 Current Issues (1.00)	ARH102 Renaissance Through Contemporary Art (3.00)
	FSC215 Customer Service In the Public Sector (3.00)		MAT221 Calculus with Analytic Geometry I (4.00)	BIO145 Marine Biology (4.00)	POS110 American National Government (3.00)	ENH110 Introduction to Literature (3.00)
	TRACK V: FIRE INVESTIGATION 24-27 credits (0.00)		MAT230 Calculus with Analytic Geometry II (5.00)	BIO160 Introduction to Human Anatomy & Physiology (4.00)	POS130 State & Local Government (3.00)	ENH111 Literature and the American Experience (3.00)
	FSC113 Introduction to Fire Suppression (3.00)		MAT231 Calc Analytic Geom II (4.00)	CHM130 Fundamental Chemistry (3.00)	POS140 Comparative Government (3.00)	ENH113 Writers/Directors & Current Issues (3.00)
	OR Permission of Program Director 0-3 credits (0.00)		MAT240 Calc with Analytic Geom III (5.00)	AND CHM130LL Fundamental Chemistry Lab (1.00)	POS220 U.S. & Arizona Constitution (3.00)	FRE265 Advanced French I (3.00)

Post-Secondary	FSC105 Hazardous Materials/First Responder (3.00)		MAT241 Calc Analytic Geom III (4.00)	CHM151 General Chemistry I (3.00)	PSY101 Introduction to Psychology (3.00)	HIS101 History of Western Civilization Middle Ages to 1789 (3.00)
	FSC108 Fundamentals of Fire Prevention (3.00)		MAT262 Differential Equations (3.00)	AND CHM151LL General Chemistry I Lab (1.00)	SLC201 Introduction to Linguistics (3.00)	HIS102 History of Western Civilization 1789 to Present (3.00)
	FSC119 Introduction Fire Service Ethics (3.00)		MAT276 Modern Differential Equations (4.00)	CHM152 General Chemistry II (3.00)	SOC101 Introduction to Sociology (3.00)	HIS103 United States History to 1865 (3.00)
	FSC208 Firefighter Safety and Building Construction (3.00)		MAT277 Modern Differential Equations (3.00)	AND CHM152LL General Chemistry II Lab (1.00)	SSH111 Sustainable Cities (3.00)	HIS111 World Hist 1500-Present (3.00)
	FSC209 Fire Investigation I (3.00)		OR equivalent course/satisfactory completion of a higher level mathematics course (0.00)	GLG101 Introduction to Geology I-Physical Lecture (3.00)		HUM101 General Humanities (3.00)
	FSC210 Fire Investigation II (3.00)			GLG102 Introduction to Geology II-Historical Lecture (3.00)		HUM108 Contemporary Humanities (3.00)
	FSC211 Fire Investigation III (3.00)			GLG103 Introduction to Geology I-Physical Lab (1.00)		LAT201 Intermediate Latin I (4.00)
	FSC212 Fire Investigation IV (3.00)			GLG104 Introduction to Geology II-Historical Lab (1.00)		LAT202 Intermediate Latin II (4.00)
	EMT101 Cardiopulmonary Resuscitation/Basic Cardiac Life Support (0.50)			GLG110 Geology Disasters and the Environment (3.00)		MHL140 Survey of Music History (3.00)
	RESTRICTED ELECTIVES: 0-20 credits (0.00)			GLG111 Geological Disasters and the Environment Lab (1.00)		MHL145 American Jazz & Popular Music (3.00)
	Students must choose the appropriate number of credits to meet the program total for completion of their track. Selected courses will not apply in both Required Courses and Restricted Electives areas. (0.00)			GPH111 Intro to Physical Geography (4.00)		MHL153 Rock Music & Culture (3.00)
	Any AJS Administration of Justice Studies courses. (0.00)			GPH212 Intro to Meteorology I (3.00)		SLC201 Introduction to Linguistics (3.00)
	Any DPR Disaster Preparedness and Emergency Response courses. (0.00)			AND GPH214 Intro to Meteorology Lab I (1.00)		SPA265 Advanced Spanish I (3.00)
	Any EMT Emergency Medical Technology courses. (0.00)			PHS110 Fund of Physical Science (4.00)		SPA266 Advanced Spanish II (3.00)
	Any FSC Fire Science Technology courses. (0.00)			PHS120 Intro to Physical Science (4.00)		SPH245 Hispanic Heritage in SW (3.00)
	Any LET Law Enforcement Technology courses. (0.00)			PHY101 Introduction to Physics (4.00)		SSH111 Sustainable Cities (3.00)
	FSC106 Introduction to Fire Protection (3.00)			PHY111 General Physics I (4.00)		CRE101 College Critical Reading (3.00)
	EMT102AB First Responder (3.00)			PHY112 General Physics II (4.00)		OR CRE111 Critical Reading for Business and Industry (3.00)
FSC262AC Service-Learning Experience in Fire Science (3.00)					OR EQVLNT Equivalent as indicated by assessment (3.00)	

Highlighted courses indicate possible dual enrollment opportunities

Programs of Study are being developed at different rates within each school district and are subject to change. Therefore, course availability may not be guaranteed. Contact your counselor for details

# Appendix E: Certificate and AAS in Emergency Response & Operations in Fire Science



## ARIZONA CAREER AND TECHNICAL EDUCATION PROGRAM OF STUDY

AZProgramsofStudy.org

<b>DISTRICT</b>	Peoria Unified	<b>SCHOOL YEAR</b>	2015
<b>HIGH SCHOOL(S)</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kellis High School, Sunrise Mountain High School	<b>POST SECONDARY SCHOOL</b>	Estrella Mountain Community College, Glendale Community College, International Fire Service Accreditation Congress
<b>DUAL ENROLLMENT SCHOOL(S):</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kellis High School, Sunrise Mountain High School,		
<b>SECONDARY CTE PROGRAM</b>	Fire Service	<b>POST SECONDARY PROGRAM</b>	Firefighter Operations
<b>PRECEDING POST SECONDARY PROGRAM</b>	Firefighter II	<b>FOLLOWING POST SECONDARY PROGRAM</b>	Emergency Response and Operations

**EMCC GCC IFSAC CCL Firefighter Operations (5557)**

Grade	CTE Secondary courses and Postsecondary major courses and CTSOs	English	Math	Science	Social Studies	Other Required Courses and/or elective
<b>Secondary</b>	<b>CTSO(s): SkillsUSA</b>					
		English I	Algebra I	Agriculture Science I - OR Integrated Science		AFJROTC I: Aerospace I - OR Band/Marching OR Personal Fitness
	<b>Administer AzMerit 10th Grade</b>					
		English II	Geometry	Agriculture Science II - OR Biology	World History	World Language I
	<b>College course placement assessments administered, academic/career advising, additional preparation strategies identified and implemented</b>					
	(West-MEC) Hazardous Materials/First Responders/Special Projects - FSC105 (3.00); (West-MEC) Introduction to Fire Protection and Suppression	English III	Algebra II	Chemistry - OR 3rd Year Science	AZ/US History	World Language II
	(West-MEC) Fire Science program may be taken 11th or 12th grade	English IV	4th Year Math		AZ/American Government - AND American Economics	

<b>Administer Arizona's CTE Technical Skills Assessment</b>						
<b>Post-Secondary</b>	EMT101 Cardiopulmonary Resuscitation/Basic Cardiac Life Support (0.50)					
	EMT104 Emergency Medical Technology (9.00)					
	OR FSC104 Basic Emergency Medical Technology (9.00)					
	AND EMT104AB Applied Practical Studies for Emergency Medical Technology (0.50)					
	OR FSC104AB Applied Practical Studies for Emergency Medical Technology (0.50)					
	<b>FSC105 Hazardous Materials/First Responder (3.00)</b>					
	FSC130 Fitness for Firefighters/CPAT (1.00)					
	FSC102 Fire Department Operations (11.00)					
FSC134 Fitness & Conditioning for Firefighters (3.00)						
<b>Highlighted courses indicate possible dual enrollment opportunities</b>						
Programs of Study are being developed at different rates within each school district and are subject to change. Therefore, course availability may not be guaranteed. Contact your counselor for details						



ARIZONA CAREER AND TECHNICAL EDUCATION PROGRAM OF STUDY

AZProgramsofStudy.org

<b>DISTRICT</b>	Peoria Unified	<b>SCHOOL YEAR</b>	2015
<b>HIGH SCHOOL(S)</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kellis High School, Sunrise Mountain High School	<b>POST SECONDARY SCHOOL</b>	Estrella Mountain Community College, Glendale Community College, International Fire Service Accreditation Congress, Northern Arizona University
<b>DUAL ENROLLMENT SCHOOL(S)</b>	Cactus High School, Centennial High School, Ironwood High School, Liberty High School, Peoria High School, Raymond S. Kellis High School, Sunrise Mountain High School		
<b>SECONDARY CTE PROGRAM</b>	Fire Service	<b>POST SECONDARY PROGRAM</b>	Emergency Response and Operations
<b>PRECEDING POST SECONDARY PROGRAM</b>	Firefighter Operations	<b>FOLLOWING POST SECONDARY PROGRAM</b>	Interdisciplinary Studies: Emergency Services Administration

EMCC GCC IFSAC NAU AAS Emergency Response and Operations (3112)

Grade	CTE Secondary course and Postsecondary major course and CTSOs	English	Math	Science	Social Studies	Other Required Course and/or elective
Secondary	9					
	CTSO(s): SkillUSA					
		English I	Algebra I	Agriculture Science I - OR Integrated Science		AFJROTC I: Aerospace I - OR Band/Marching OR Personal Fitness
	Administer AzMerit 10th Grade					
Secondary	10					
		English II	Geometry		World History	World Language I
Secondary	11					
	College course placement assessments administered, academic/career advising, additional preparation strategies identified and implemented					
Secondary	12					
	(West-MEC) Fire Science program may be taken 11th or 12th grade		Algebra II		AZ/US History	World Language II
					AZ/American Government - AND American Economics	

Administer Arizona's CTE Technical Skills Assessment						
Post-Secondary	Students must select one (1) of the following five (5) tracks: TRACK I: FIRE OPERATIONS 18-27.5 credits (0.00)	AAS General Education English/First Year Composition: 6 credits required* 2015-16 (0.00)	Any approved general education course from the Mathematics area: 3 credits* 2015-16 (0.00)	Track II: Paramedicine (0.00)	Any approved education course from the Social And Behavioral Sciences area: 3 credits* 2015-16. AJS/EMT/FSC/SWU258 Victimology and Crisis Management recommended for Track II students. (0.00)	CRE101 College Critical Reading (3.00)
	FSC102 Fire Department Operations (1.00)	ENG101 First Year Composition (3.00)	MAT140 College Mathematics (5.00)	BIO160 Introduction to Human Anatomy & Physiology (4.00)	COM100 Introduction to Human Communication (3.00)	OR CRE111 Critical Reading for Business and Industry (3.00)
	FSC130 Fitness for Firefighters/CPAT (1.00)	OR ENG107 First-Year Composition for ESL (3.00)	MAT141 College Mathematics (4.00)	Tracks I, III, IV: Any approved general education course from the Natural Sciences area: 4 credits (0.00)	ECH176 Child Development (3.00)	OR EQ/LNT Equivalent as indicated by assessment (3.00)
	FSC134 Fitness & Conditioning for Firefighters (3.00)	AND ENG102 First-Year Composition (3.00)	MAT142 College Mathematics (3.00)	Any approved general education course from the Natural Sciences area: 4 credits* 2015-16 (0.00)	EDU221 Introduction to Education (3.00)	Any approved general education course from the Oral Communication area: 3 credits* 2015-16. COM230 Small Group Communication recommended for Track II students (0.00)
	TRACK II: PARAMEDICINE 43.5-58 credits (0.00)	OR ENG108 First-Year Composition for ESL (3.00)	MAT150 College Algebra/Functions (5.00)	AGS164 Plant Growth and Development (4.00)	EED205 The Developing Child: Prenatal to Age Eight (3.00)	COM100 Introduction to Human Communication (3.00)
	EMT/FSC104 Emergency Medical Technology (9.00)	OR ENG111 Technical/Professional Writing (3.00)	MAT151 College Algebra/Functions (4.00)	AST101 Survey of Astronomy (3.00)	GCU102 Intro to Human Geography (3.00)	OR COM100AA Introduction to Human Communication Part I (1.00)
	AND EMT/FSC104AB Applied Practical Studies for Emergency Medical Technology (0.50)		MAT152 College Algebra/Functions (3.00)	AST102 Survey of Astronomy Laboratory (1.00)	HES100 Health Science (3.00)	AND COM100AB Introduction to Human Communication Part II (1.00)
	OR EMT/FSC104 Emergency Medical Technology (9.00)		MAT172 Finite Mathematics (3.00)	AST111 Intro Solar System Astronomy (3.00)	HIS101 History of Western Civilization Middle Ages to 1789 (3.00)	AND COM100AC Introduction to Human Communication Part III (1.00)
	OR Arizona State EMT Certification (0.00)		MAT182 Plane Trigonometry (3.00)	AST112 Intro Stars Galaxies Cosmology (3.00)	HIS102 History of Western Civilization 1789 to Present (3.00)	COM110 Interpersonal Communication (3.00)
	OR Arizona State Paramedic Certification (0.00)		MAT187 Precalculus (5.00)	AST113 Intro Solar Syst Astronomy Lab (1.00)	HIS103 United States History to 1865 (3.00)	OR COM110AA Interpersonl Comm Pt I (1.00)
	OR Permission of Program Director (0.00)		MAT206 Elements of Statistics (3.00)	BIO100 Biology Concepts (4.00)	HIS104 United States History 1865 to Present (3.00)	AND COM110AB Interpersonl Comm Pt II (1.00)
	EMT235 Emergency Cardiac Care (3.00)		MAT212 Brief Calculus (3.00)	BIO101 Introduction to Human Genetics for Non-Majors (4.00)	HIS110 World History to 1500 (3.00)	AND COM110AC Interpersonl Comm Pt III (1.00)
	EMT236 Pharmacology in an Emergency Setting (3.00)		MAT213 Brief Calculus (4.00)	BIO105 Environmental Biology (4.00)	HIS204 African-America Hist 1865-Pres (3.00)	OR COM225 Public Speaking (3.00)
	EMT240 Advanced Cardiac Life Support (2.00)		MAT220 AP Calculus (5.00)	BIO107 Introduction to Biotechnology (4.00)	POS101 Current Issues (1.00)	OR COM230 Small Group Communication (3.00)
	EMT242 Pediatric Advanced Life Support (1.00)		MAT221 Calculus with Analytic Geometry I (4.00)	BIO145 Marine Biology (4.00)	POS110 American National Government (3.00)	Any approved general education course from the Humanities and Fine Arts area: 3 credits* 2015-16 (0.00)
	OR EMT265 Pediatric Education for Prehospital Providers: Advanced (1.00)		MAT230 Calculus with Analytic Geometry II (5.00)	BIO160 Introduction to Human Anatomy & Physiology (4.00)	POS130 State & Local Government (3.00)	ARH101 Prehistoric Through Gothic Art (3.00)
EMT245 Trauma Management I (2.00)		MAT231 Calc Analytic Geom II (4.00)	CHM130 Fundamental Chemistry (3.00)	POS140 Comparative Government (3.00)	ARH102 Renaissance Through Contemporary Art (3.00)	

Post-Secondary	OR EMT246 Trauma Management II (4.00)		MAT240 Calc with Analytic Geom III (5.00)	AND CHM130LL Fundamental Chemistry Lab (1.00)	POS220 U.S. & Arizona Constitution (3.00)	ENH110 Introduction to Literature (3.00)
	EMT272AA Advanced Emergency Medical Technology (12.50)		MAT241 Calc Analytic Geom III (4.00)	CHM151 General Chemistry I (3.00)	PSY101 Introduction to Psychology (3.00)	ENH111 Literature and the American Experience (3.00)
	AND EMT272AB Advanced Emergency Medical Technology (12.50)		MAT262 Differential Equations (3.00)	AND CHM151LL General Chemistry I Lab (1.00)	SLC201 Introduction to Linguistics (3.00)	ENH113 Writers/Directors & Current Issues (3.00)
	EMT272LL Advanced Emergency Medical Technology Practicum (7.50)		MAT276 Modern Differential Equations (4.00)	CHM152 General Chemistry II (3.00)	SOC101 Introduction to Sociology (3.00)	FRE265 Advanced French I (3.00)
	OR EMT272LA Advanced Emergency Medical Technology Practicum Part I (3.75)		MAT277 Modern Differential Equations (3.00)	AND CHM152LL General Chemistry II Lab (1.00)	SSH111 Sustainable Cities (3.00)	HIS101 History of Western Civilization Middle Ages to 1789 (3.00)
	AND EMT272LB Advanced Emergency Medical Technology Practicum Part II (3.75)		OR equivalent course/satisfactory completion of a higher level mathematics course (0.00)	GLG101 Introduction to Geology I-Physical Lecture (3.00)		HIS102 History of Western Civilization 1789 to Present (3.00)
	EMT296WC Cooperative Education (3.00)			GLG102 Introduction to Geology II-Historical Lecture (3.00)		HIS103 United States History to 1865 (3.00)
	OR HCC145 Medical Terminology for Health Care Workers (3.00)			GLG103 Introduction to Geology I-Physical Lab (1.00)		HIS111 World Hist 1500-Present (3.00)
	OR HCC145AA Medical Terminology for Health Care Workers I (1.00)			GLG104 Introduction to Geology II-Historical Lab (1.00)		HUM101 General Humanities (3.00)
	AND HCC145AB Medical Terminology for Health Care Workers II (1.00)			GLG110 Geology Disasters and the Environment (3.00)		HUM108 Contemporary Humanities (3.00)
	AND HCC145AC Medical Terminology for Health Care Workers III (1.00)			GLG111 Geological Disasters and the Environment Lab (1.00)		LAT201 Intermediate Latin I (4.00)
	OR Permission of Program Director (0.00)			GPH111 Intro to Physical Geography (4.00)		LAT202 Intermediate Latin II (4.00)
	TRACK III: EMERGENCY MANAGEMENT 18 credits (0.00)			GPH212 Intro to Meteorology I (3.00)		MHL140 Survey of Music History (3.00)
	AJS/DPR/FSC139 Emergency Response to Terrorism (3.00)			AND GPH214 Intro to Meteorology Lab I (1.00)		MHL145 American Jazz & Popular Music (3.00)
	AJS/DPR/FSC146 Disaster Recovery Operations (3.00)			PHS110 Fund of Physical Science (4.00)		MHL153 Rock Music & Culture (3.00)
	AJS/DPR/FSC148 Fundamentals of Emergency Management (3.00)			PHS120 Intro to Physical Science (4.00)		SLC201 Introduction to Linguistics (3.00)
	AJS/DPR/FSC149 Hazard Mitigation (3.00)			PHY101 Introduction to Physics (4.00)		SPA265 Advanced Spanish I (3.00)
	FSC224 Incident Command Systems (3.00)			PHY111 General Physics I (4.00)		SPA266 Advanced Spanish II (3.00)
	TRACK IV: FIRE SCIENCE 24 credits (0.00)			PHY112 General Physics II (4.00)		SPH245 Hispanic Heritage in SW (3.00)

Post-Secondary	AJS/DPR/FSC147 Emergency Preparedness (3.00)					SSH111 Sustainable Cities (3.00)
	OR AJS/DPR/FSC148 Fundamentals of Emergency Management (3.00)					
	FSC105 Hazardous Materials/First Responder (3.00)					
	FSC117 Fire Apparatus (3.00)					
	FSC215 Customer Service in the Public Sector (3.00)					
	TRACK V: FIRE INVESTIGATION 24-27 credits (0.00)					
	FSC113 Introduction to Fire Suppression (3.00)					
	OR Permission of Program Director 0-3 credits (0.00)					
	FSC105 Hazardous Materials/First Responder (3.00)					
	FSC108 Fundamentals of Fire Prevention (3.00)					
	FSC209 Fire Investigation I (3.00)					
	FSC210 Fire Investigation II (3.00)					
	FSC211 Fire Investigation III (3.00)					
	FSC212 Fire Investigation IV (3.00)					
	EMT101 Cardiopulmonary Resuscitation/Basic Cardiac Life Support (0.50)					
	RESTRICTED ELECTIVES: 0-20 credits (0.00)					
	Students must choose the appropriate number of credits to meet the program total for completion of their track. Selected courses will not apply in both Required Courses and Restricted Electives areas. (0.00)					
Any AJS Administration of Justice Studies courses. (0.00)						
Any DPR Disaster Preparedness and Emergency Response courses. (0.00)						
Any EMT Emergency Medical Technology courses. (0.00)						

<b>Post-Secondary</b>	Any FSC Fire Science Technology courses. (0.00)					
	Any LET Law Enforcement Technology courses. (0.00)					
	FSC106 Introduction to Fire Protection (3.00)					
	EMT102AB First Responder (3.00)					
	FSC282AC Service-Learning Experience In Fire Science (3.00)					
	FSC208 Firefighter Safety and Building Construction (3.00)					
	FSC119 Introduction Fire Service Ethics (3.00)					

Highlighted courses indicate possible dual enrollment opportunities

Programs of Study are being developed at different rates within each school district and are subject to change. Therefore, course availability may not be guaranteed. Contact your counselor for details

## WHAT IS CTE?

CAREER & TECHNICAL EDUCATION (CTE) IS AN EDUCATIONAL DELIVERY SYSTEM THAT PREPARES STUDENTS WITH THE ACADEMIC, TECHNICAL AND EMPLOYABILITY SKILLS, KNOWLEDGE, AND TRAINING THEY WILL NEED TO SUCCEED IN FUTURE CAREERS.



### CTE PROVIDES HIGH SCHOOL STUDENTS WITH:

- Career exploration & direction
- Hands-on training
- Academic relevance
- Real world application
- Technical skills
- Employability skills
- Work experience
- Leadership experience & development
- Industry certifications
- College credit for CTE courses



CTE programs align with colleges to provide dual enrollment credit for certifications, associates & bachelors degrees. CTE also partners with business & industry to provide work-based learning experiences and industry certifications. Students may enroll in more than one CTE program.

## HOW DOES CTE WORK?



**CLASSROOM INSTRUCTION:**  
Theory & content application of core standards

**LABORATORY INSTRUCTION:**  
Hands-on application of theory using industry standard equipment, procedures & safety practices

**WORK-BASED LEARNING:**  
Real world application through job shadowing, school-based enterprises, clinical experiences, apprenticeships, cooperative education & internships

**STUDENT ORGANIZATIONS:**  
Leadership development on local, state & national levels

**INTEGRATION:**  
Integration of core, technology, employability & industry standards

**COMMUNITY PARTNERSHIPS:**  
Partnership with Business & Industry, Colleges & Tech schools so students learn current technology, work-place standards, & skills needed to be successful

## Appendix G: Peoria Unified School District Guide and Six Career Fields with CTE Programs

These six Career Fields align with the 16 Career Clusters and 79 Career Pathways. The six Career Field colors are used by the Junior High CTE program called TLC – Technology Life Careers.



# WHY DOES CTE WORK?

**89%**

## RESEARCH SHOWS:

89% OF PUBLIC SCHOOL PARENTS AGREE THAT STUDENTS SHOULD RECEIVE MORE EDUCATION ABOUT CAREER CHOICES DURING HIGH SCHOOL.

### HERE'S WHY:

#### CTE IS DESIGNED TO BENEFIT ALL STUDENTS BECAUSE:



#### CTE SAVES TIME

**FACT:** CTE offers industry certifications & college credit during high school.

**RESULT:** CTE students complete college programs at a higher rate and in less time than their peers.



#### CTE EARNS A HIGHER SALARY

**FACT:** CTE partners with business & industry to provide students current technology, curriculum, & work-based learning experiences.

**RESULT:** Students boost earning potential by 25% w/a CTE degree &/or industry certifications.



#### CTE JOINS THE RANKS

**FACT:** CTE is the formula for economic development & Arizona's future workforce.

**RESULT:** Students experience a higher employment rate because of industry training & experience through work-based learning.



#### CTE GIVES DIRECTION NOW

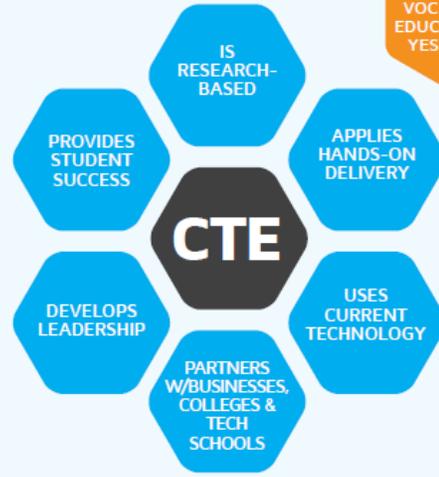
**FACT:** CTE provides students the opportunity to experience different careers & change their goals.

**RESULT:** CTE students enter college with direction & do not change majors.

#### CTE PLANS FOR LIFE!

# WHAT DO YOU NEED TO KNOW?

CTE IS NOT THE VOCATIONAL EDUCATION OF YESTERDAY.



### AND THIS IS WHY CTE WORKS FOR:

BUSINESS & INDUSTRY | COLLEGES & TECH SCHOOLS  
ARIZONA'S WORKFORCE | ALL STUDENTS

# HOW DOES CTE STACK UP?

## STUDENTS WHO COMPLETE A PEORIA CTE PROGRAM EXCEL & SUCCEED!

**99%** **GRADUATION RATE:**  
STATE: 75% PUSD: 95% PUSD CTE: 99%

**99%** **PLACEMENT RATE:**  
high school graduates who placed in CTE Program-related education, work, or military career one year after graduation.

**99%** **PASSING RATE:**  
on the Arizona State Technical Assessments

**MET OR EXCEEDED AIMS TEST SCORES IN:**

	MATH	READING	WRITING
STATE:	63%	85%	74%
PUSD:	75%	90%	80%
PUSD CTE:	92%	97%	95%

**250+ CTE MASTERY OF SUBJECT AREA:**  
graduation endorsements awarded - the equivalent of a college major earned during high school

**80+ PROGRAMS OF STUDY:**  
CTE students earn Industry Certifications and/or dual enrollment toward Associate or Bachelor Degrees during high school.



**25 STACKABLE CREDENTIALS:**  
A series of industry certifications and education earned through career focused programs of study during and after high school.

**EXAMPLE**

- BIOTECHNOLOGY
- Biotechnology
- Biotechnology
- Biotechnology
- Biotechnology
- Biotechnology

## STATE & NATIONAL AWARDS:

**159** **STUDENTS RECEIVED AWARDS FOR AFJROTC, DECA, FBLA, EDUCATORS RISING, HOSA & SKILLSUSA**

**10** **NATIONAL TEACHERS OF THE YEAR AWARDS IN PAST 15 YEARS**

**16** **NATIONAL STUDENT AWARDS FOR DECA, FBLA, HOSA & SKILLSUSA IN 2016**

**66** **OF THE 159 STUDENTS QUALIFIED FOR NATIONALS**

**7** **STATE OFFICERS & LEADERSHIP**

- 2017** Junior High CTE TLC Program recognized with Magna Award Honorable Mention from the National School Board Association
- 2016** Total CTE Program Model nationally recognized with the Innovative District award from the International Center for Leadership in Education
- Early Childhood Education Program recognized by AdvanceCTE with the prestigious Excellence in Action award for stackable credentials
- 2013** Quality of Life Enhancement Award from WestMARC (Western Maricopa Coalition) for PUSD MyLife Program
- 2009** Arizona School Boards Association (ASBA) Golden Bell for Total CTE Program Model
- 2008** ASBA Golden Bell Runner-up for PUSD Total CTE Program (Organization/Team Award)

# WHAT DOES CTE OFFER?

## NATIONALLY RANKED PROGRAMS



Our CTE programs have been designated by the International Center for Leadership in Education as highly innovative for focusing on student achievement and featured at the national Model Schools Conference.



Our CTE Programs have been awarded national recognition for offering students the opportunity to earn industry credentials and dual enrollment credits toward a college degree during high school.



Our Junior High CTE Technology Life Careers (TLC) program has received the Magna Award Honorable Mention from the National School Board Association.

## GRADUATION ENDORSEMENTS



Students may pursue a CTE Mastery of Subject Area Graduation Endorsement by completing a course sequence in a specific program. This endorsement will be added to a high school transcript indicating academic achievement in a major area of study. Students may receive endorsements in multiple programs.

## COLLEGE & CAREER PREPARATION

### THROUGH A PROGRAM OF STUDY



PUSD partners with community college and university programs to offer our high school students the opportunity to earn industry credentials and college credit toward certifications and degrees in a specific career field during high school. These are called Programs of Study. Most of our CTE Programs offer a program of study. For more information, contact your counselor.

## ADDITIONAL PROGRAMS

### West-MEC

Peoria Unified School District is a satellite school district and member of West-MEC (Western Maricopa Education Center), a Joint Technical Education District (JTED) that partners with school districts to improve and expand Career & Technical Education. West-MEC offers a variety of programs on our high school campuses and on their central campuses.

### WEST-MEC PROGRAMS OFFERED:

- ▶ Aesthetician
- ▶ Automotive Collision
- ▶ Automotive Technology
- ▶ Aviation Maintenance
- ▶ Avionics Electronics
- ▶ Climate Control Technician
- ▶ Coding
- ▶ Cosmetology
- ▶ Emergency Medical Technician
- ▶ Energy & Industrial Technology
- ▶ Fire Science
- ▶ General Construction
- ▶ IT Security
- ▶ Law, Public Safety & Security
- ▶ Massage Therapy
- ▶ Medical Assisting
- ▶ Medium/Heavy Diesel
- ▶ Pharmacy Technician
- ▶ Physical Therapy Technician
- ▶ Precision Manufacturing
- ▶ Veterinary Sciences
- ▶ Welding Technology

Contact West-MEC at 623-738-0002 for more information.

# FIND A PROGRAM THAT WORKS FOR YOU!

## THE PEORIA UNIFIED SCHOOL DISTRICT OFFERS THE FOLLOWING CAREER & TECHNICAL EDUCATION PROGRAMS:



**BUSINESS, MARKETING  
& MANAGEMENT**

ACCOUNTING  
BUSINESS  
FINANCE  
HOSPITALITY  
MARKETING



**COMMUNICATION  
& INFORMATION  
SYSTEMS**

FILM & TV  
SOFTWARE DEVELOPMENT  
ADVANCED SOFTWARE



**ENVIRONMENTAL  
& AGRICULTURAL  
SYSTEMS**

AGRICULTURE  
BIOTECHNOLOGY  
SPORTS TURF



**INDUSTRIAL,  
MANUFACTURING &  
ENGINEERING SYSTEMS**

AUTOMOTIVES  
CONSTRUCTION  
ENGINEERING  
WELDING



**HEALTH SERVICES**

MEDICAL ASSISTING  
NURSING  
SPORTS MEDICINE

**HIGH SCHOOLS:**  
CACTUS, CENTENNIAL, IRONWOOD, LIBERTY,  
PEORIA, RAYMOND S. KELLIS,  
SUNRISE MOUNTAIN

All Peoria Unified School District students may enroll in a CTE program on any campus. Transportation will be determined at each school site.



**HUMAN SERVICES  
& RESOURCES**

AIR FORCE JROTC  
CULINARY  
FASHION  
EARLY CHILDHOOD ED  
EDUCATION  
FIRE SCIENCE  
LAW ENFORCEMENT



The Peoria Unified School District does not discriminate on the basis of race, color, religion, national origin, sex, disability, age, or marital status in admission and access to its programs, services, activities, or in any aspect of its operations, hiring or employment practices and provides equal access to the City Council and other designated youth groups.

Funded by  
**West-MEC** The Peoria Unified School District is a member school for West-MEC.

(623) 486-6259  
[peoriaunified.org/cteworks](http://peoriaunified.org/cteworks)



## Appendix H: Peoria CTE Human Resources

This diagram is pages 18 and 19 of the CTE Guide for students to inform them of high school program available. Please notice that the Fire Science Programs is part of the Human Resources Career Field. This spread shows the Coherent Sequence of Instruction for the program, the dual enrollment available, the industry certification available, and the CTSO available.

**CTE WORKS**

# HUMAN SERVICES & RESOURCES



**COURSE INFORMATION GUIDE**



**AIR FORCE JROTC**

AFJROTC I
AFJROTC II
AFJROTC III
AFJROTC VI

**WORK-BASED LEARNING:**  
AFJROTC Leadership

**CAMPUS LOCATIONS:**  
Cactus HS  
Peoria HS

**COLLEGE CREDIT HOURS:**  
In progress

**CERTIFICATION:**  
AFJROTC Certificate of Completion  
  
AFJROTC Training Certification

**CULINARY ARTS**

Introduction to Culinary Arts
Creative Foods
Professional Cooking
Commercial Baking

**WORK-BASED LEARNING:**  
CTE Internship: Culinary Arts

**CAMPUS LOCATIONS:**  
All high schools

**COLLEGE CREDIT HOURS:**  
6 hours

**CERTIFICATION:**  
Maricopa County Food Service Worker Certification  
  
ServSafe Certification

**FASHION**

Design & Merchandising I
Design & Merchandising II

**WORK-BASED LEARNING:**  
CTE Internship: Design & Merchandising

**CAMPUS LOCATIONS:**  
Sunrise Mountain HS

**COLLEGE CREDIT HOURS:**  
In progress

**CERTIFICATION:**  
Fashion does not currently offer industry recognized certifications or licenses.

**EARLY CHILDHOOD ED**

Child Development
Child Oriented Occupational Program (COOP)

**WORK-BASED LEARNING:**  
CTE Internship: Early Childhood

**CAMPUS LOCATIONS:**  
All High Schools

**COLLEGE CREDIT HOURS:**  
9 hours

**CERTIFICATION:**  
CDA - Child Development Associate  
  
CPR/First Aid  
Fingerprinting  
Maricopa County Food Service Worker Certification

**EDUCATION**

Future Teachers Academy I
Future Teachers Academy II

**WORK-BASED LEARNING:**  
CTE Internship: Ed Professions

**CAMPUS LOCATIONS:**  
Cactus HS  
Centennial HS

**COLLEGE CREDIT HOURS:**  
6 hours

**CERTIFICATION:**  
Praxis Paraprofessional Certificate

**FIRE SCIENCE**

Medical Science
Introduction to Fire Suppression
Introduction to Fire Service Selection

**WORK-BASED LEARNING:**  
CTE Internship: Fire Science

**CAMPUS LOCATIONS:**  
Sunrise Mountain HS

**COLLEGE CREDIT HOURS:**  
9 hours

**CERTIFICATION:**  
ASHI CPR Certification  
ASHI Basic First Aid Certification  
ASHI Bloodborne Pathogen Awareness  
CPAT Certification (Candidate Physical Ability Test)  
NIMS 100, 200 and 700  
Wildland Firefighter

**LAW ENFORCEMENT**

Criminal Justice
Law Enforcement I
Law Enforcement II

**WORK-BASED LEARNING:**  
CTE Internship: Law Enforcement

**CAMPUS LOCATIONS:**  
All except Peoria HS

**COLLEGE CREDIT HOURS:**  
6 hours

**CERTIFICATION:**  
CPR/First Aid  
Guard Card

**CTSOs**



18

19



# CTE GRADUATION ENDORSEMENTS

Students may pursue a CTE MASTERY OF SUBJECT AREA GRADUATION ENDORSEMENT by completing a course sequence in a specific program. This endorsement will be added to a high school transcript indicating academic achievement in a major area of study. Students will receive a graduation medallion, certificate and pin for the program completed. Students may receive endorsements in multiple CTE programs.

Requirements include:

- Completion of all courses within a CTE program
- Completion of a work-based learning experience
- "B" average or higher
- 80% or higher on assessments
- One year membership in CTE student organization
- Final approval from CTE teacher

For more information, speak to your counselor today or contact the CTE Department at 623-486-6259.



The Peoria Unified School District does not discriminate on the basis of race, color, religion, national origin, sex, disability, age, or sexual orientation in admission and access to its programs, services, activities, or in any aspect of their operations, hiring or employment practices and provides equal access to the Boy Scouts and other designated youth groups.

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West-MEC The Peoria Unified School District is a satellite district for West-MEC.

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# Appendix J: Peoria's Fire Science Program Cut Sheet



## COURSE SEQUENCE:

- Medical Science
  - Introduction to Fire Suppression ①
  - Introduction to Fire Service Selection ①
  - CTE Internship: Fire Science
- A CTE Mastery of Subject Endorsement may be added to a high school transcript upon completion of any CTE program. A student may earn multiple CTE endorsements.
- ① Dual Enrollment

## CAMPUS LOCATION:

Sunrise Mountain HS

## STUDENT ORGANIZATION:



## COLLEGE PROGRAM PARTNER:

Glendale Community College

## COLLEGE CREDIT HOURS:



These Dual Enrollment hours may apply toward:

Certificate of Completion in Fire Science

Associate of Applied Science in Fire Science

Bachelor of Science in Public Safety Administration

## CERTIFICATION:

ASHI CPR Certification

ASHI Basic First Aid Certification

ASHI Bloodborne Pathogen Awareness

CPAT Certification (Candidate Physical Ability Test)

NIMS 100, 200 and 700

Wildland Firefighter Certification

Some certification tests occur after high school graduation and/or require industry experience.

Some certifications require/include fees.



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PEORIA UNIFIED SCHOOL DISTRICT  
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CACTUS HS  
CENTENNIAL HS  
IRONWOOD HS  
LIBERTY HS  
PEORIA HS  
RAYMOND S. KELLIS HS  
SUNRISE MOUNTAIN HS

# PEORIA CTE NEWS



## FROM THE SUPERINTENDENT:

Dr. Darwin Stiffler

On October 26, 2017, the Peoria Unified School District will offer a free event designed to help students develop their goals as they map their high school, college and career plans. I invite you to attend our 6<sup>TH</sup> annual Career Exploration Day:

**28<sup>TH</sup> OCT.**  
October 26, 2017  
Open Campus 9:00 a.m. - 12:00 p.m.  
Centennial High School Campus  
14388 N. 79th Avenue, Peoria, 85381

### YOU WILL HAVE THE OPPORTUNITY TO:

- tour and experience our 28 Career & Technical Education (CTE) programs
- meet CTE teachers, students, college, military and tech school representatives as well as business and industry partners aligned with each program
- learn about the Programs of Study and dual enrollment opportunities
- explore the student organizations that provide leadership skills
- discover high school Career Centers and the information available regarding testing, scholarships & financial aid
- visit our MET Professional Academy that offers students authentic work experience in Medical, Engineering & Technology strands

Please join us and learn about all the possibilities available to you here in the Peoria Unified School District.



Dr. Darwin Stiffler

## COLLEGE & CAREER READINESS

Get a head start on your future, and save time and money now!

You can earn college credit for your high school classes through a Program of Study and dual enrollment.

A Program of Study is a structured sequence of required core & CTE courses in a specific career field. As a result, students earn industry credentials and/or college credit toward an Associate's and/or Bachelor's degree during high school.



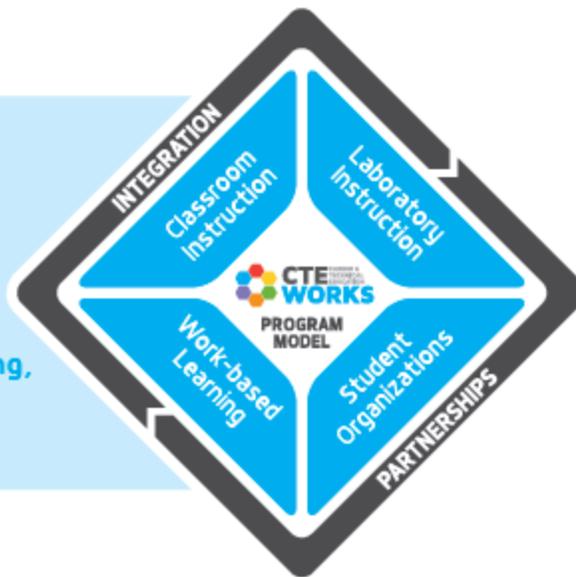
Peoria Unified School District currently offers 80+ Programs of Study. We partner with:

- Industry certifications
- Maricopa County Community College District
- Grand Canyon University
- University of Arizona
- Arizona State University
- Northern Arizona University
- Embry Riddle Aeronautical University

TALK TO YOUR COUNSELOR TODAY!

# CTE TOTAL PROGRAM MODEL

Career & Technical Education applies a unique, award-winning, delivery system.



## NATIONAL RECOGNITION



## HIGH SCHOOL REGISTRATION

Remember to see your counselor and register for the next school year.

## PEORIA CTE PROGRAMS

### BUSINESS, MARKETING & MANAGEMENT

- ACCOUNTING
- BUSINESS
- FINANCE
- HOSPITALITY
- MARKETING

### INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

- AUTOMOTIVE COLLISION
- AUTOMOTIVES
- AUTOMOTIVE TECHNOLOGY
- AVIATION MAINTENANCE
- AVIONICS ELECTRONICS
- CLIMATE CONTROL TECH
- CONSTRUCTION
- ENERGY/INDUSTRIAL TECH
- ENGINEERING
- GENERAL CONSTRUCTION
- MEDIUM/HEAVY DIESEL
- PRECISION MANUFACTURING
- WELDING
- WELDING TECHNOLOGY

### COMMUNICATION & INFORMATION SYSTEMS

- CODING
- CYBERSECURITY
- IT SECURITY
- FILM & TV
- SOFTWARE DEVELOPMENT
- ADVANCED SOFTWARE

### HEALTH SERVICES

- EMERGENCY MEDICAL TECH
- MEDICAL ASSISTING
- MEDICAL ASSISTING
- MEDICAL NURSING
- PHARMACY TECH
- PHYSICAL THERAPY TECH
- SPORTS MEDICINE

### ENVIRONMENTAL & AGRICULTURAL SYSTEMS

- AGRICULTURE
- BIOTECHNOLOGY
- SPORTS TURF
- VETERINARY SCIENCES

### HUMAN SERVICES & RESOURCES

- AESTHETICIAN
- AIR FORCE JROTC
- COSMETOLOGY
- CULINARY
- FASHION
- EARLY CHILDHOOD ED
- EDUCATION
- FIRE SCIENCE
- FIRE SCIENCE
- LAW ENFORCEMENT
- LAW & SECURITY
- MASSAGE THERAPY

■ MET Professional Academy  
■ West-MEC Central Campus



The Peoria Unified School District does not discriminate on the basis of race, color, religion, national origin, sex, disability, age, or sexual orientation in admission and access to its programs, services, activities, or in any aspect of their operations, hiring or employment practices and provides equal access to the Boy Scouts and other designated youth groups. The Peoria Unified School District is a satellite district for West-MEC.



(623) 486-6259  
[peoriaunified.org/cteworks](http://peoriaunified.org/cteworks)

All Peoria Unified School District students may enroll in a CTE program on any campus. Transportation will be determined at each school site.

## Appendix L: Peoria CTE Student Wheel

Student Focus Groups said they don't like tri-fold brochures. So we created a manipulative called the CTE Wheel. When students hold it they can rotate the inside to reveal on one side the traits of a career field and the other side the program options available. This is the outside of the wheel.





# WHY CTE CAREER & TECHNICAL EDUCATION WORKS

**2** TOTAL PROGRAM MODEL AWARDS

**6** CAREER FIELDS TO CHOOSE FROM

**7** STUDENT ORGANIZATIONS

**2** ASBA GOLDEN BELL AWARDS FOR THE 7TH & 8TH GRADE TLC PROGRAM & TRANSITION TO HIGH SCHOOL

NATIONAL CTE TEACHERS OF THE YEAR **10**

**12** AVERAGE COLLEGE CREDIT HOURS STUDENTS EARN DURING HIGH SCHOOL

**150+** POST-SECONDARY PARTNERS

**2** NATIONAL AWARDS FOR PEORIA CTE AND PROGRAMS OF STUDY

HIGH SCHOOL STUDENTS TAKE TWO OR MORE CTE CLASSES **85%**

HIGH SCHOOL STUDENTS TAKE ONE CTE CLASS **95%**

 PROGRAMS OF STUDY LEADING TO INDUSTRY CREDENTIALS, ASSOCIATE'S AND/OR BACHELOR'S DEGREES **80+**

**28**  CTE PROGRAMS OFFERED IN THE PEORIA SCHOOL DISTRICT



EXPLORE YOUR  
FUTURE NOW IN...  
**AUTOMOTIVES**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**CONSTRUCTION**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**ENGINEERING**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**WELDING**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)





EXPLORE YOUR  
FUTURE NOW IN...  
**CULINARY**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**EDUCATION**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**FASHION**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**FIRE SCIENCE**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)





EXPLORE YOUR  
FUTURE NOW IN...  
**FINANCE**



[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**HOSPITALITY**



[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**MARKETING**



[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



EXPLORE YOUR  
FUTURE NOW IN...  
**AGRICULTURE**



[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)





# EXPLORE YOUR FUTURE NOW IN... **BIOTECHNOLOGY**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



# EXPLORE YOUR FUTURE NOW IN... **SPORTS TURF MANAGEMENT**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



# EXPLORE YOUR FUTURE NOW IN... **ADVANCED SOFTWARE**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



# EXPLORE YOUR FUTURE NOW IN... **FILM & TV**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)





**EXPLORE YOUR  
FUTURE NOW IN...  
SOFTWARE DEVELOPMENT**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



**EXPLORE YOUR  
FUTURE NOW IN...  
MEDICAL ASSISTING**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



**EXPLORE YOUR  
FUTURE NOW IN...  
NURSING**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



**EXPLORE YOUR  
FUTURE NOW IN...  
SPORTS MEDICINE**

[WWW.PEORIAUNIFIED.ORG/CTEWORKS](http://WWW.PEORIAUNIFIED.ORG/CTEWORKS)



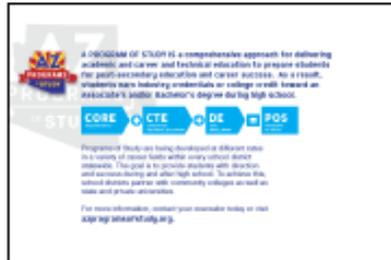
# Appendix O: Arizona Programs of Study Marketing Materials

## AZPOS PRINT MATERIALS

### GENERAL POSTCARD:



FRONT



BACK

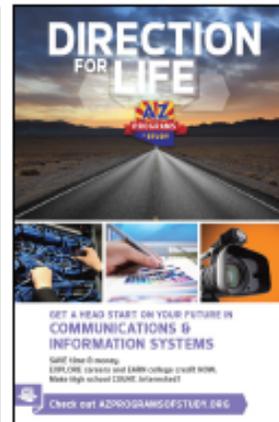
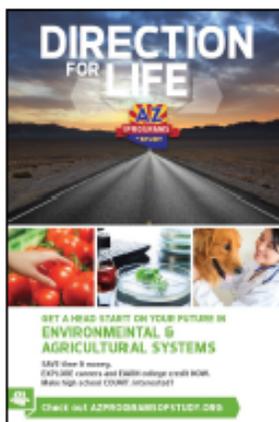
### CAREER FIELD POSTCARDS: COLOR COORDINATED PER 6 CAREER FIELD COLORS



FRONT



BACK



**WHEEL POSTER: Standard 24"x36" poster**



**WHEEL FOLDOUT not a folder: Can be included in Notebook**



EXTERIOR



INTERIOR

**GUIDE BOOKLET:**

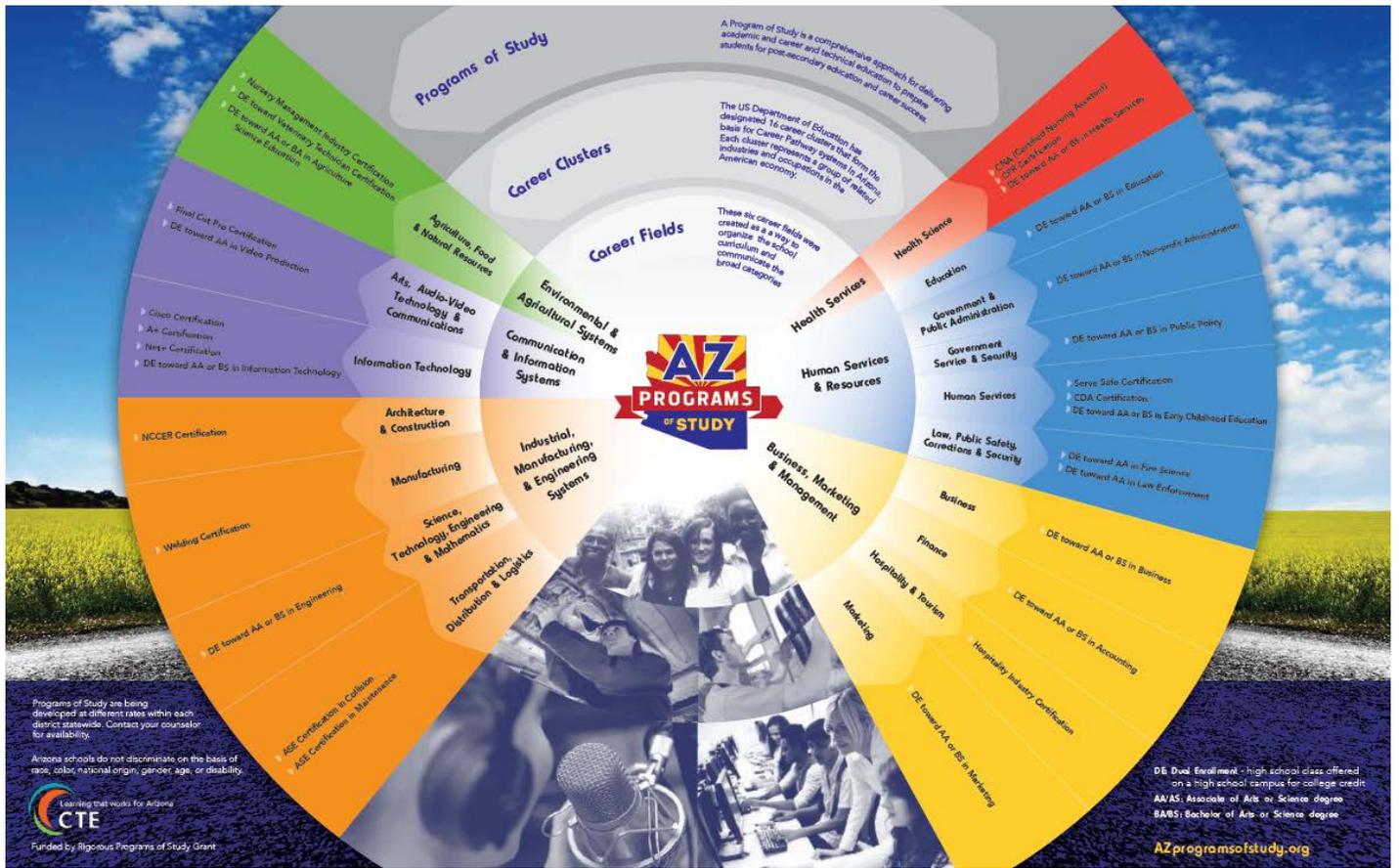


**NOTEBOOK CONTENT: Cover, Spine, Table of Contents, Career Field Dividers**



**STUDENT FOLDER:**





## Appendix P: Pictures of Sunrise Mountain High School Fire Science Program



Fire science students going for a ride in the aerial ladder as part of their ladder operations class in which they got to go up on the ladder and cut a car apart using hydraulic rescue tools.



Fire Science students teaching safety to Centennial COOP students.











Captain Comella on Hot Shot







SMHS Fire Science students learning wildland fire techniques.





SMHS Fire Science graduate going to Porta Rico to help with hurricane clean up.